

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034118.D
 Acq On : 13 Aug 2019 9:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:47 AM

Quant Time: Aug 13 10:12:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1080085	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2061765	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2297681m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	1816782	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1086267	8.172	ppbv 99
3) Chlorodifluoromethane	2.99	51	1147687	9.189	ppbv 98
4) Chloromethane	3.14	50	720044	8.942	ppbv 99
5) Vinyl Chloride	3.26	62	644527	9.085	ppbv 96
6) Bromomethane	3.48	94	331274	9.036	ppbv 99
7) Chloroethane	3.57	64	228692	8.604	ppbv 97
8) Dichlorotetrafluoroethane	3.19	85	1329368	8.669	ppbv 90
9) Propene	3.01	41	637592	8.659	ppbv 99
10) Heptane	8.20	43	1651193	8.669	ppbv 99
11) Trichlorofluoromethane	3.97	101	1362408	8.645	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.51	101	927460	8.340	ppbv 91
13) Ethanol	3.62	45	123958	5.974	ppbv 99
14) Bromoethene	3.75	108	405314	8.162	ppbv 97
15) Acetone	3.87	43	1186968	7.690	ppbv 100
16) 1,3-Butadiene	3.33	39	641275	8.544	ppbv 100
17) tert-Butyl alcohol	4.32	59	930065	6.458	ppbv 99
18) 1,1-Dichloroethene	4.31	96	433343	8.239	ppbv 98
19) Isopropyl Alcohol	3.99	45	910444	7.576	ppbv # 46
20) Methylene Chloride	4.37	84	382372	8.261	ppbv 95
21) Allyl Chloride	4.44	41	869915	8.143	ppbv 98
22) trans-1,2-Dichloroethene	4.92	96	424943	8.315	ppbv 96
23) Vinyl Acetate	5.11	43	2137553	8.353	ppbv 99
24) 1,1-Dichloroethane	5.05	63	1365343	8.967	ppbv 100
25) Ethyl Acetate	5.72	43	2509607	8.267	ppbv 100
26) Hexane	5.74	57	1081974	8.408	ppbv 99
27) Carbon Disulfide	4.58	76	1172798	8.645	ppbv 99
28) Methyl tert-Butyl Ether	5.07	73	1702306	7.911	ppbv 98
29) Chloroform	5.80	83	1575112	9.005	ppbv 97
30) Cyclohexane	7.20	84	889535	8.751	ppbv 99
31) cis-1,2-Dichloroethene	5.60	61	1173062	9.229	ppbv 94
32) 1,1,1-Trichloroethane	6.57	97	1477593	8.535	ppbv 96
34) 2-Butanone	5.29	43	1794646	9.363	ppbv 98
35) Carbon Tetrachloride	7.08	117	1415156	8.943	ppbv 98
36) Benzene	6.96	78	2165343	9.240	ppbv 99
37) 1,2-Dichloroethane	6.37	62	1318534	10.458	ppbv 98
38) Trichloroethene	7.91	130	690585	7.609	ppbv 94
39) 1,2-Dichloropropane	7.69	63	931124	9.847	ppbv 98
40) 1,4-Dioxane	7.91	88	313472	8.786	ppbv # 94
41) Tetrahydrofuran	6.10	42	1125731	9.547	ppbv 99
42) Bromodichloromethane	7.87	83	1733317	9.806	ppbv 100
43) Methyl Methacrylate	8.09	69	926055	9.634	ppbv 97

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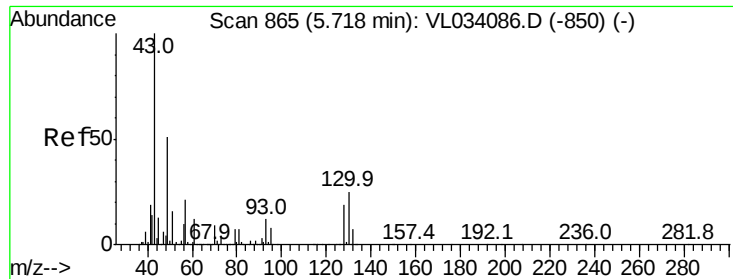
Manual Integrations
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Quant Time: Aug 13 10:12:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3733757	8.899	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1180736	9.690	ppbv	99
46) cis-1,3-Dichloropropene	8.78	75	1350058	9.601	ppbv	96
47) 1,1,2-Trichloroethane	9.57	97	837398m	9.264	ppbv	
48) Dibromochloromethane	10.40	129	1329362	9.172	ppbv	99
49) Bromoform	13.15	173	1138023	8.781	ppbv	98
50) 4-Methyl-2-Pentanone	8.82	43	2644892	9.066	ppbv	100
51) 2-Hexanone	10.22	43	2297208	9.370	ppbv #	100
52) Tetrachloroethene	11.32	164	690782	7.633	ppbv	94
53) Toluene	9.89	91	2401106	8.879	ppbv	97
54) 1,2-Dibromoethane	10.70	107	1264838	9.236	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	830248	7.904	ppbv	97
57) Chlorobenzene	12.25	112	1631252	7.884	ppbv	95
58) Ethyl Benzene	12.81	91	3186240	8.247	ppbv	98
59) m/p-Xylene	13.09	91	5043118m	16.261	ppbv	
60) o-Xylene	13.79	91	2473411	7.981	ppbv	97
61) Styrene	13.63	104	1990182	8.090	ppbv	97
62) Isopropylbenzene	14.77	105	3246385	7.803	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.78	83	1821159	8.135	ppbv	99
64) n-propylbenzene	15.67	120	854842	7.774	ppbv	86
65) tert-Butylbenzene	16.85	119	2714862	7.326	ppbv	93
66) Benzyl Chloride	17.10	91	1389224	6.773	ppbv	95
67) sec-Butylbenzene	17.40	105	3940450	7.534	ppbv	98
69) p-Isopropyltoluene	17.76	119	3198139	7.414	ppbv	98
70) n-Butylbenzene	18.66	91	3624068	7.788	ppbv	98
71) 2-Chlorotoluene	15.56	91	2708826	8.098	ppbv	97
72) 4-Ethyltoluene	15.94	105	2887237	7.915	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	2755337	7.852	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	2727257	7.471	ppbv	95
75) 1,3-Dichlorobenzene	17.11	146	1537583	7.520	ppbv	98
76) 1,4-Dichlorobenzene	17.25	146	1599078	7.654	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1540552	7.643	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1232961	7.716	ppbv	99
79) Naphthalene	22.34	128	2783893	7.343	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	1468945	12.355	ppbv	97
81) 1,2,4-Trichlorobenzene	22.06	180	1488411m	7.072	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1080085

Ion Ratio Lower Upper

49 100

128 37.0 19.5 58.5

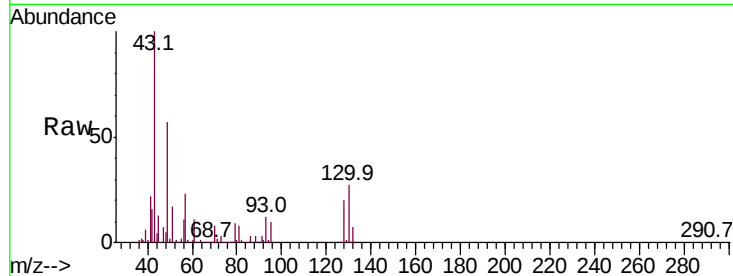
130 47.6 25.4 76.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0

800000 Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

600000

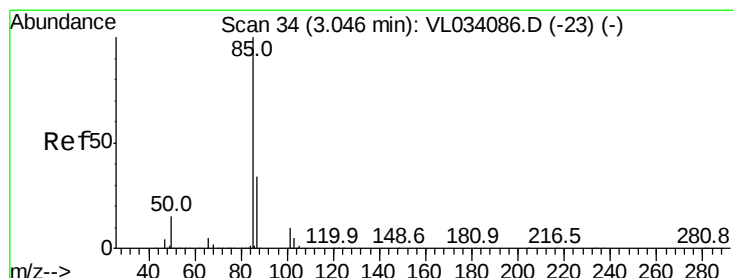
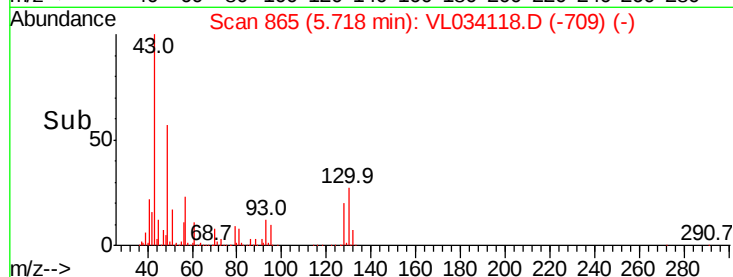
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 8.172 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034118.D

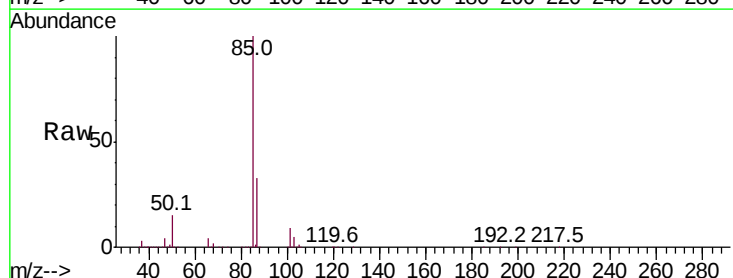
Acq: 13 Aug 2019 9:33

Tgt Ion: 85 Resp: 1086267

Ion Ratio Lower Upper

85 100

87 33.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

1000000 Ion 87.00 (86.70 to 87.70): VL0

800000

600000

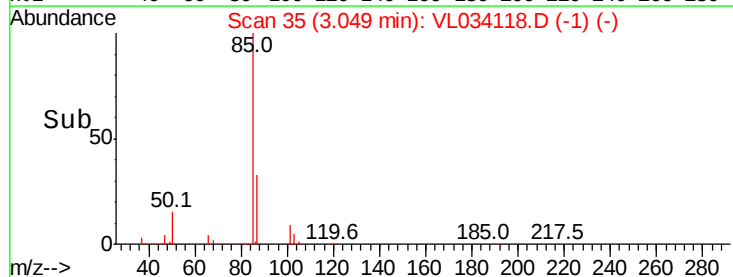
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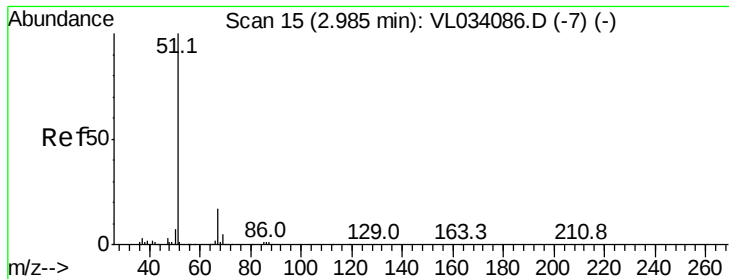
200000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 9.189 ppbv

RT: 2.99 min Scan# 15

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tot Ion: 51 Resp: 1147687

Ion Ratio Lower Upper

51 100

67 17.4 13.3 19.9

Instrument :

MSVOA_L

ClientSampleId :

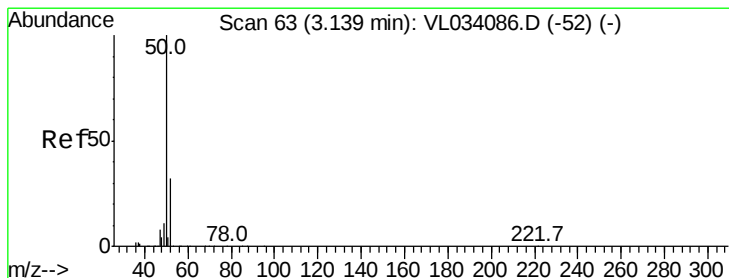
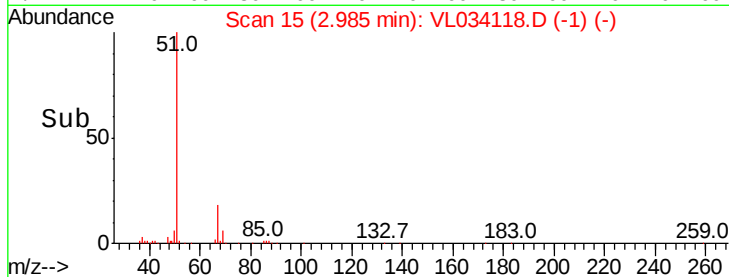
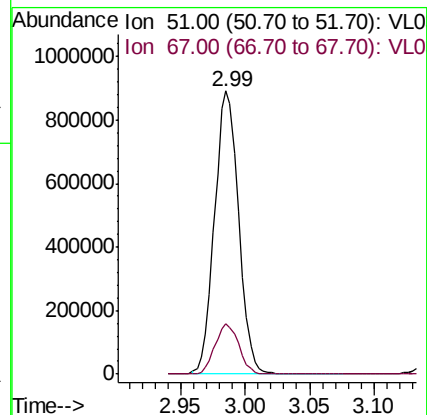
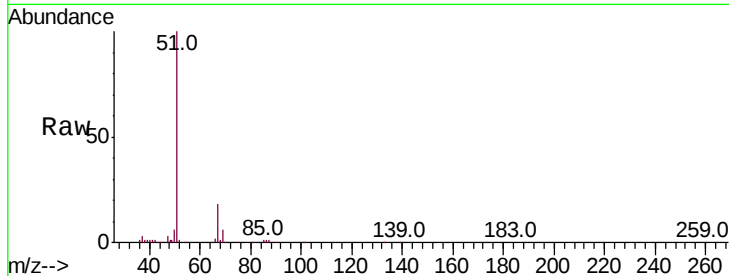
VSTDCCC010EC

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#4

Chloromethane

Concen: 8.942 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034118.D

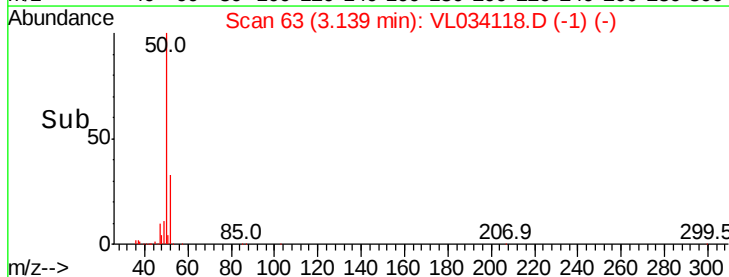
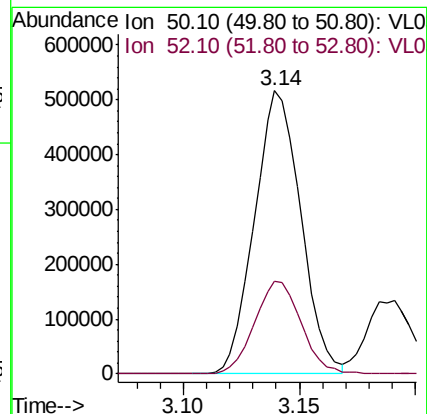
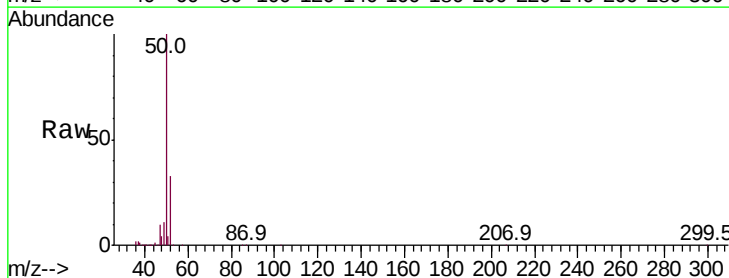
Acq: 13 Aug 2019 9:33

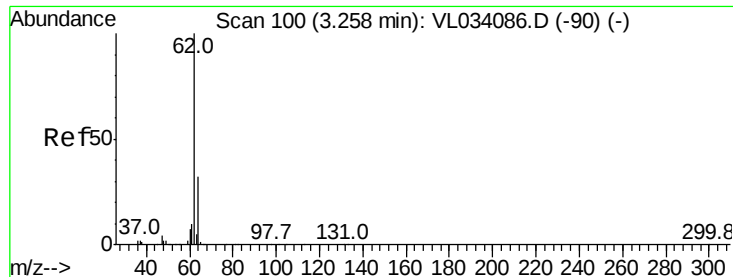
Tgt Ion: 50 Resp: 720044

Ion Ratio Lower Upper

50 100

52 32.5 25.7 38.5





#5

Vinyl Chloride

Concen: 9.085 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 644527

Ion Ratio Lower Upper

62 100

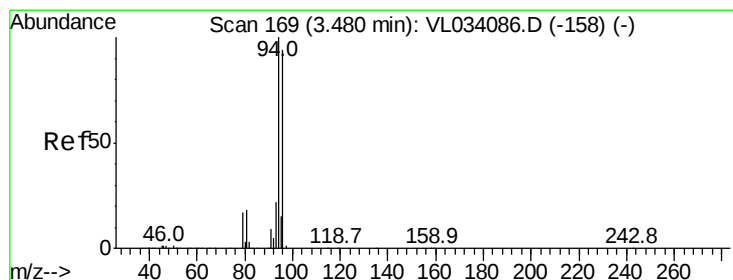
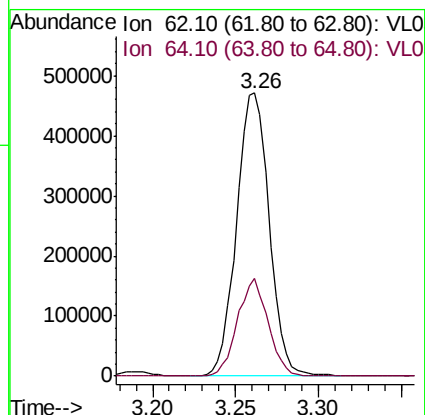
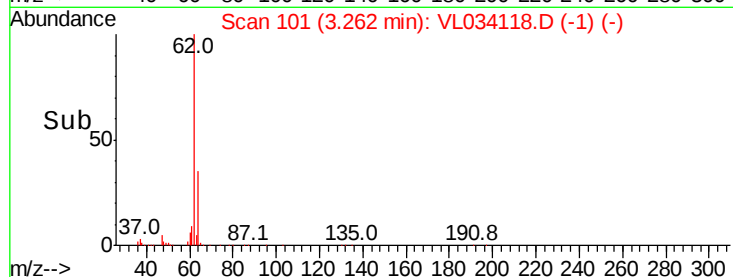
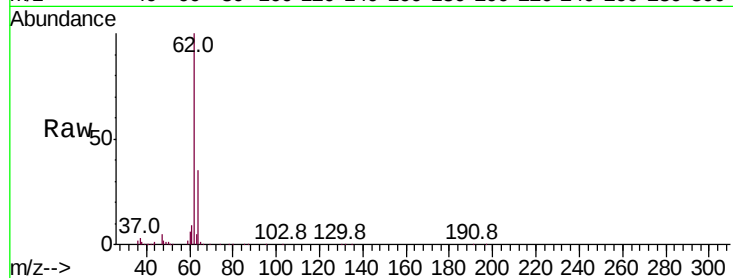
64 34.7 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 9.036 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034118.D

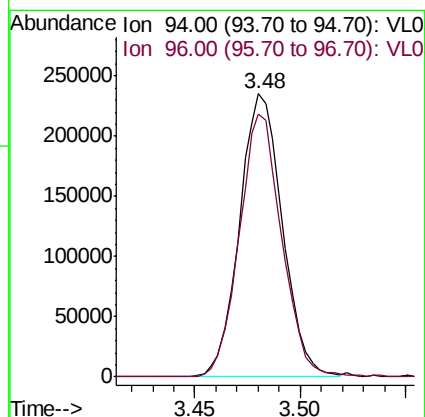
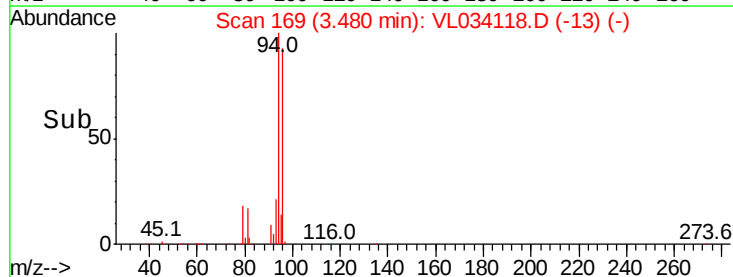
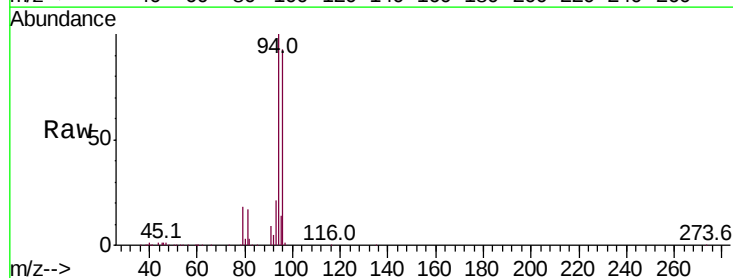
Acq: 13 Aug 2019 9:33

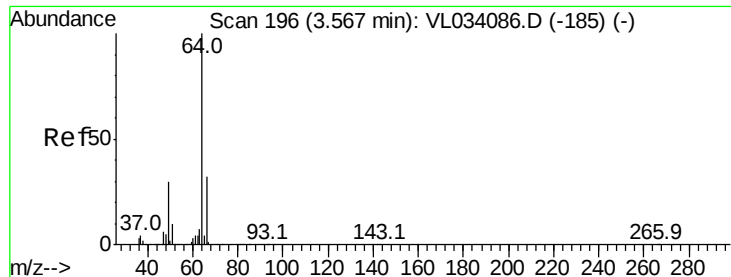
Tgt Ion: 94 Resp: 331274

Ion Ratio Lower Upper

94 100

96 92.8 75.3 112.9





#7

Chloroethane

Concen: 8.604 ppbv

RT: 3.57 min Scan# 196

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 228692

Ion Ratio Lower Upper

64 100

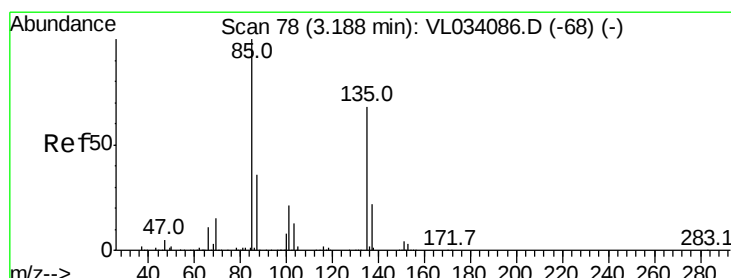
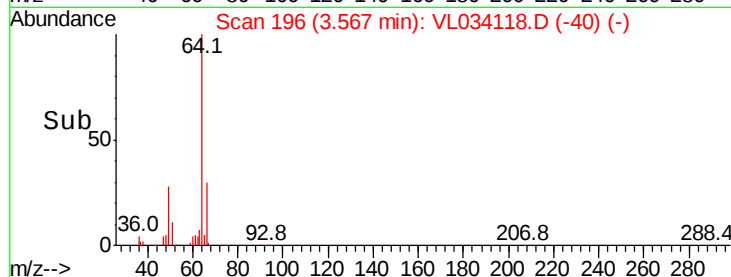
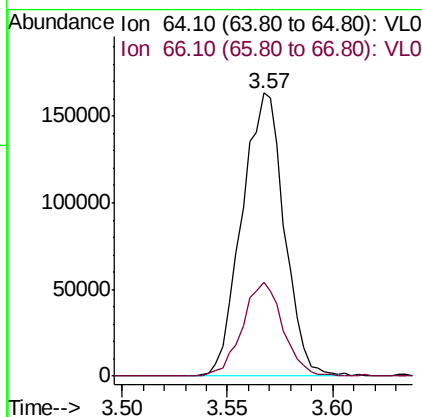
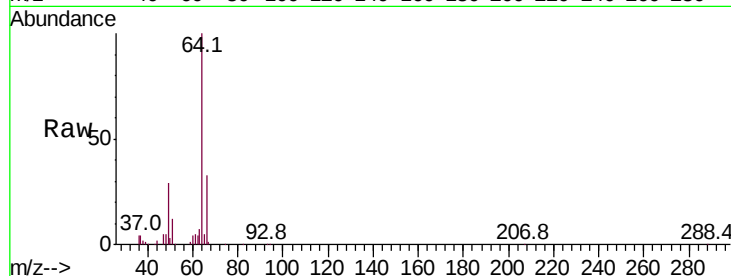
66 33.0 25.2 37.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.669 ppbv

RT: 3.19 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL034118.D

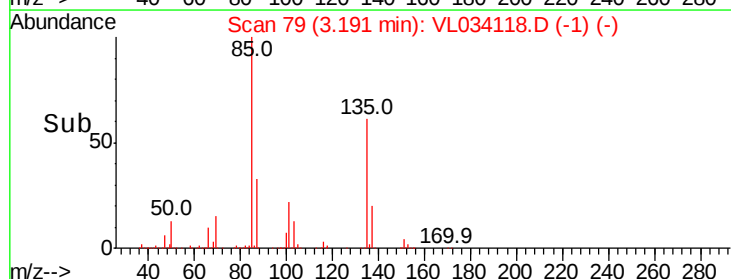
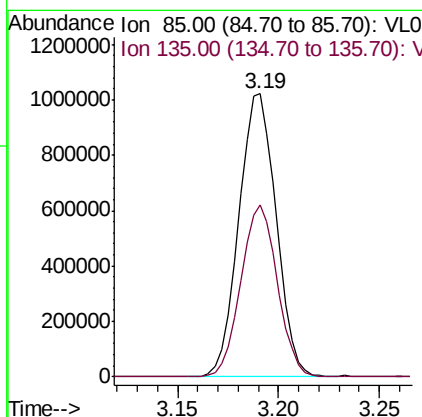
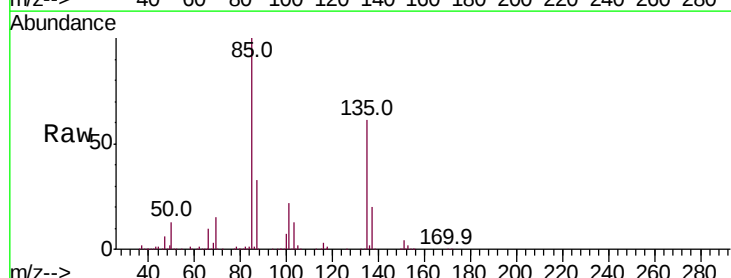
Acq: 13 Aug 2019 9:33

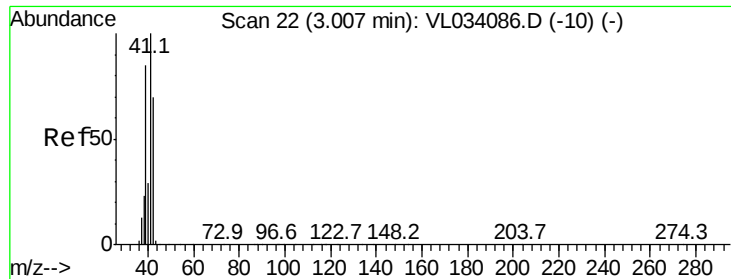
Tgt Ion: 85 Resp: 1329368

Ion Ratio Lower Upper

85 100

135 59.6 54.0 81.0





#9

Propene

Concen: 8.659 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tot Ion: 41 Resp: 637592

Ion Ratio Lower Upper

41 100

42 68.8 55.8 83.6

Instrument :

MSVOA_L

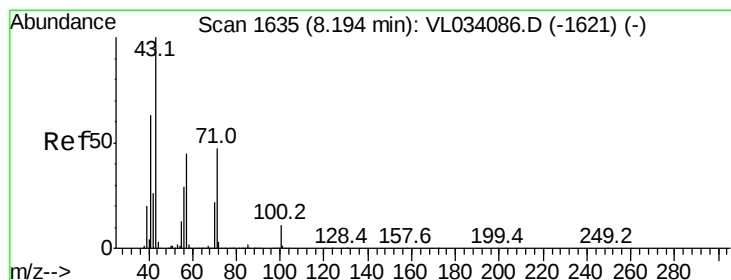
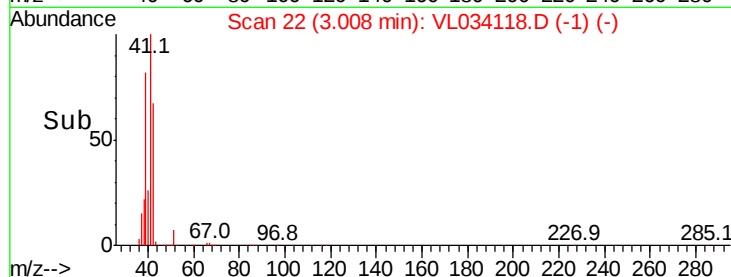
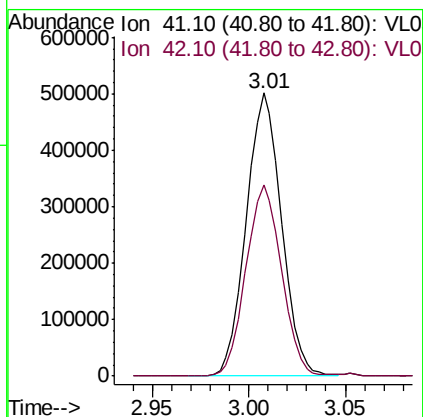
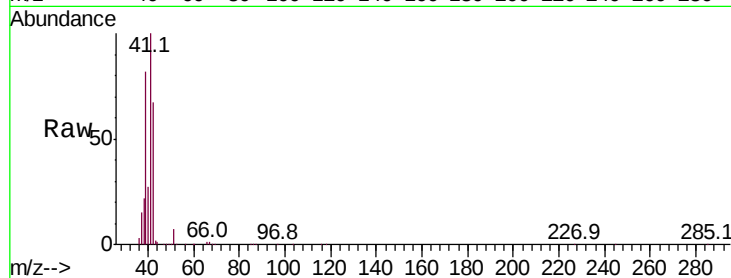
ClientSampleId :

VSTDCCC010EC

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#10

Heptane

Concen: 8.669 ppbv

RT: 8.20 min Scan# 1636

Delta R.T. 0.00 min

Lab File: VL034118.D

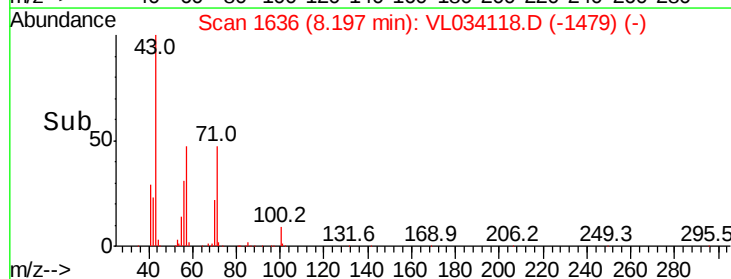
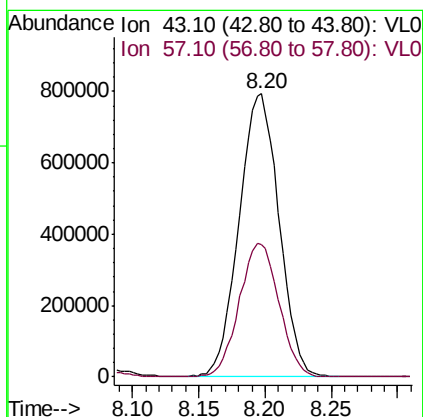
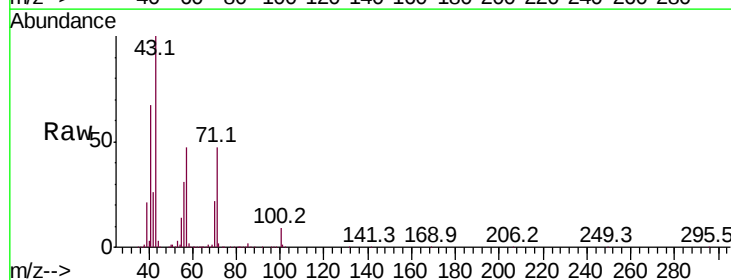
Acq: 13 Aug 2019 9:33

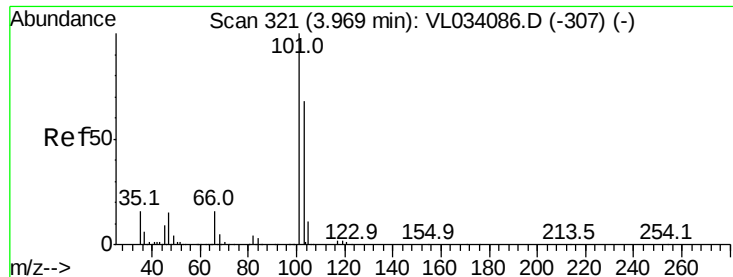
Tgt Ion: 43 Resp: 1651193

Ion Ratio Lower Upper

43 100

57 47.3 37.2 55.8





#11

Trichlorofluoromethane

Concen: 8.645 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1362408

Ion Ratio Lower Upper

101 100

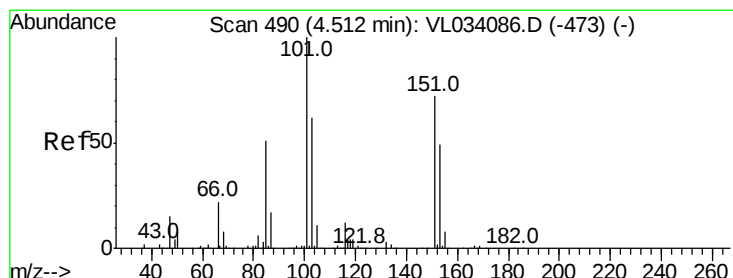
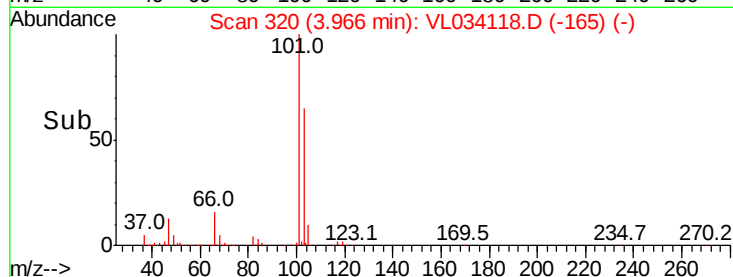
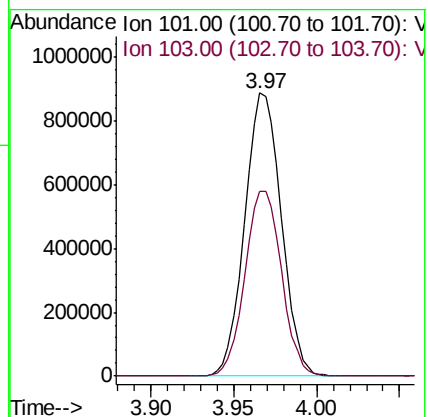
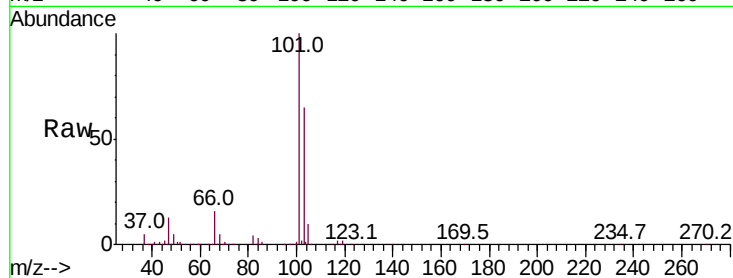
103 65.2 54.3 81.5

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.340 ppbv

RT: 4.51 min Scan# 490

Delta R.T. 0.00 min

Lab File: VL034118.D

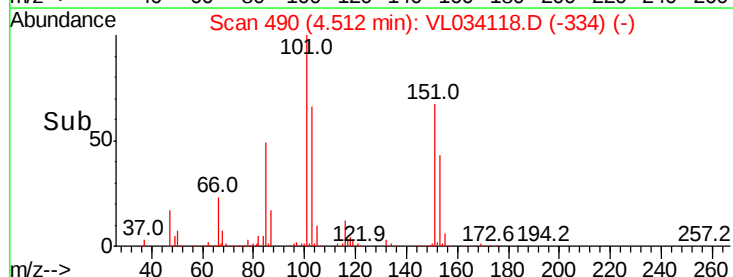
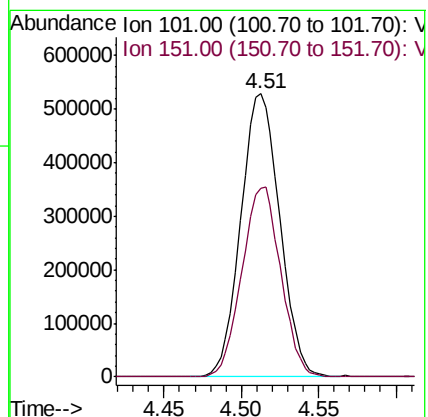
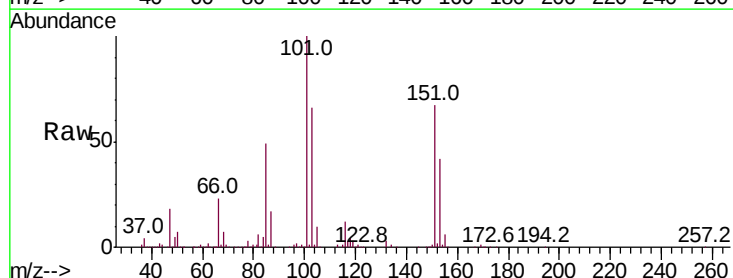
Acq: 13 Aug 2019 9:33

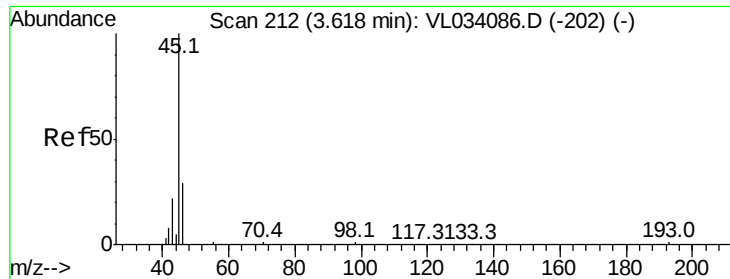
Tgt Ion:101 Resp: 927460

Ion Ratio Lower Upper

101 100

151 66.9 59.4 89.0





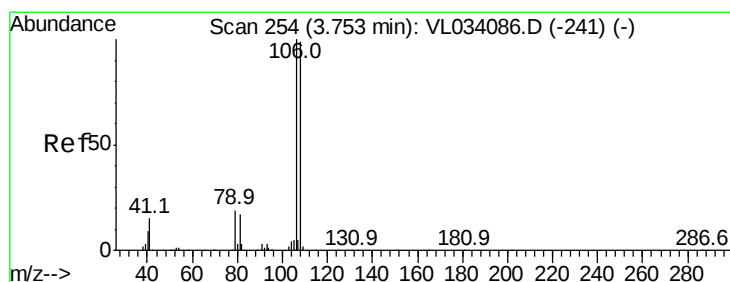
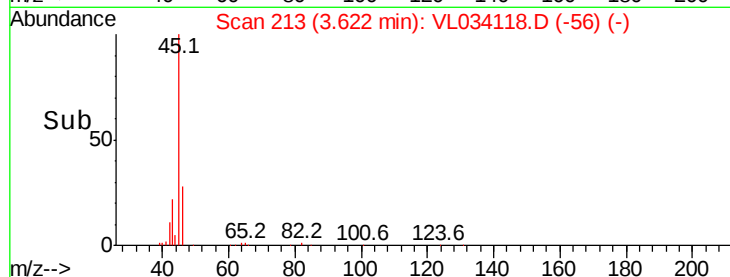
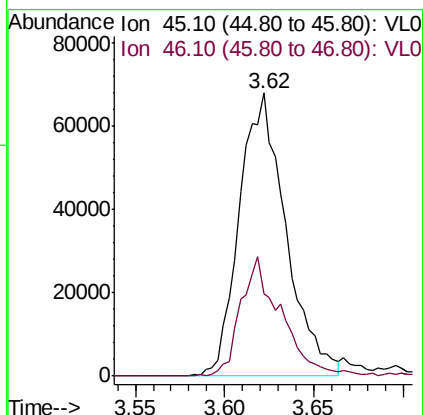
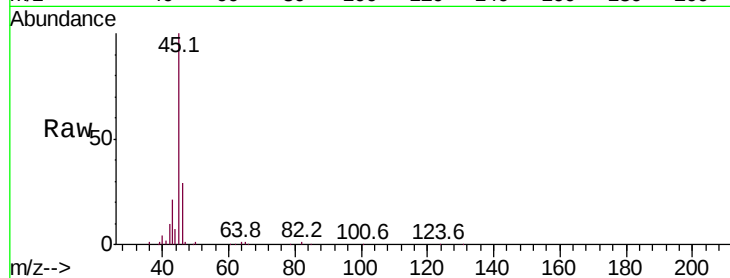
#13
Ethanol
Concen: 5.974 ppbv
RT: 3.62 min Scan# 213
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp Lower	Upper
45	100		
46	36.8	14.9	59.5

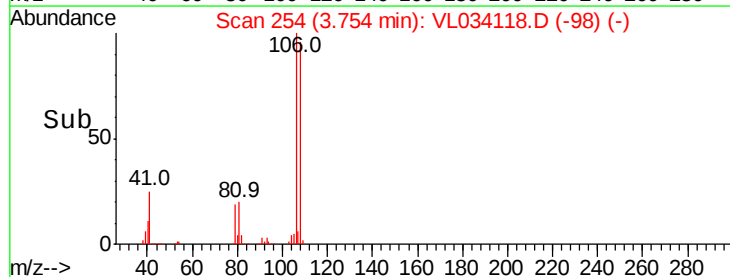
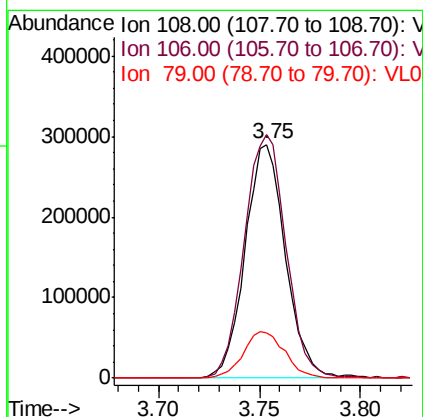
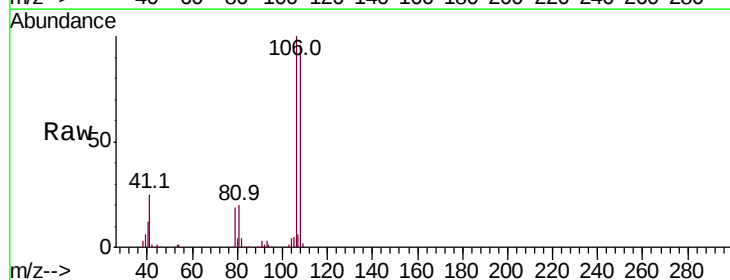
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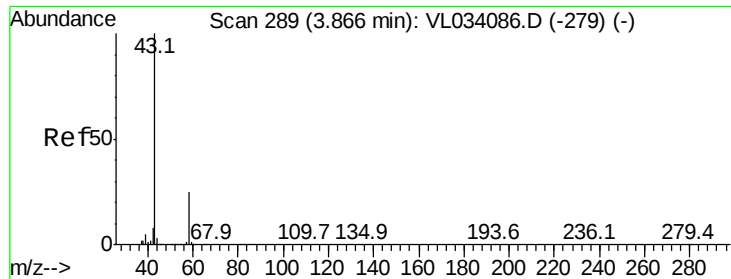
MMDadoda
8/16/2019 8:54:47 AM



#14
Bromoethene
Concen: 8.162 ppbv
RT: 3.75 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Resp Lower	Upper
108	100		
106	109.2	85.0	127.6
79	20.8	15.8	23.8





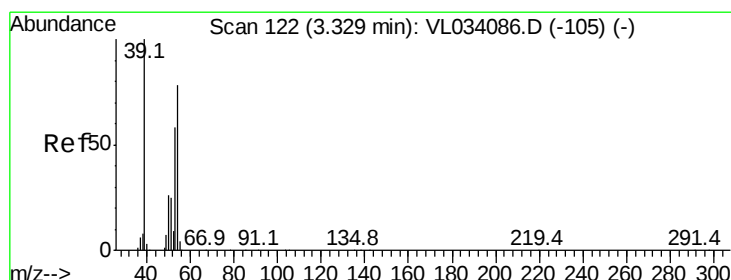
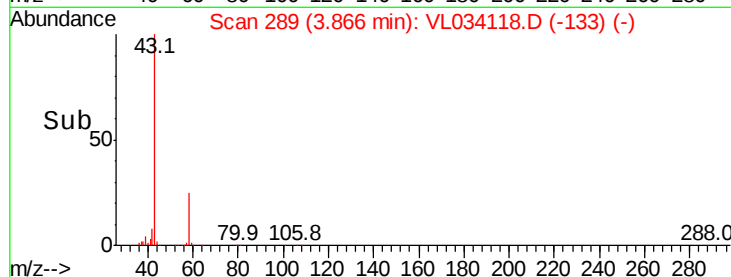
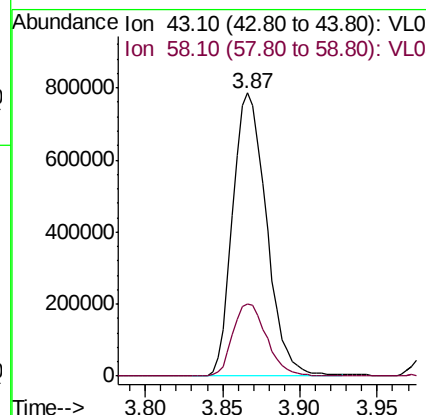
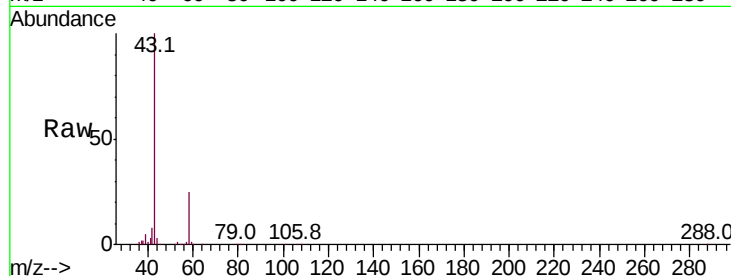
#15
Acetone
Concen: 7.690 ppbv
RT: 3.87 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1186968
Ion Ratio Lower Upper
43 100
58 25.8 20.6 30.8

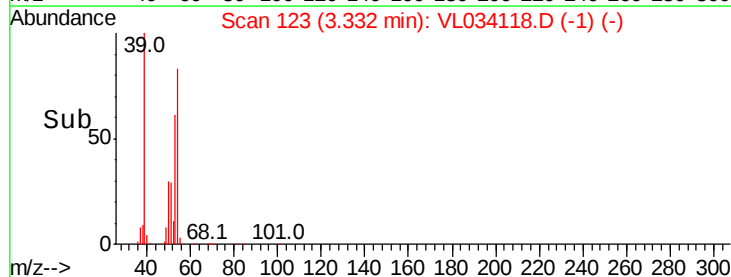
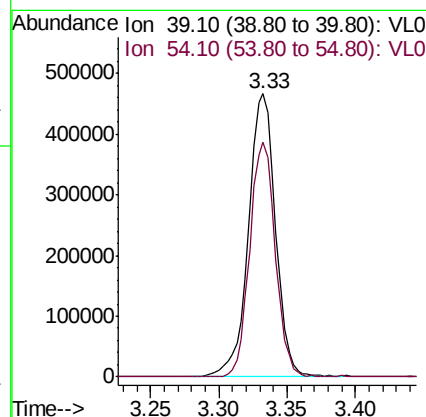
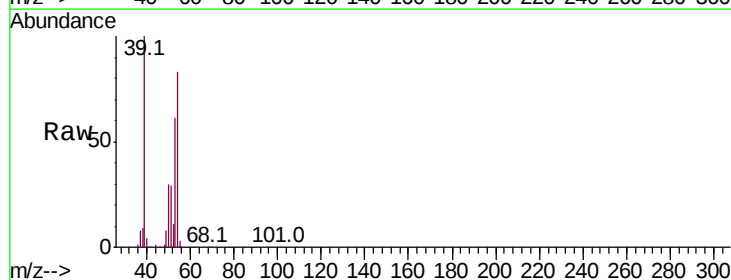
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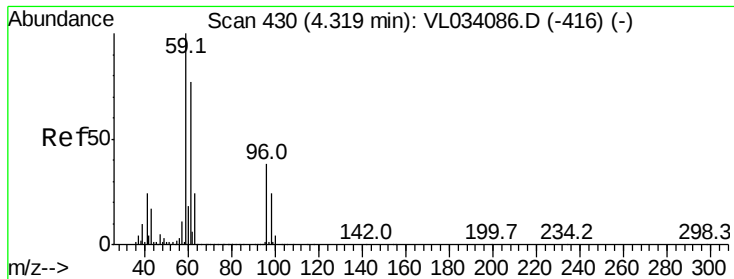
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#16
1,3-Butadiene
Concen: 8.544 ppbv
RT: 3.33 min Scan# 123
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion: 39 Resp: 641275
Ion Ratio Lower Upper
39 100
54 78.7 62.7 94.1





#17

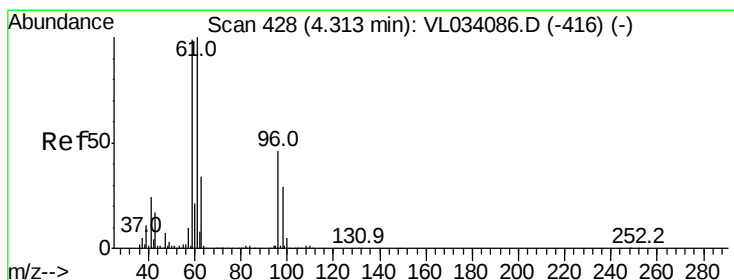
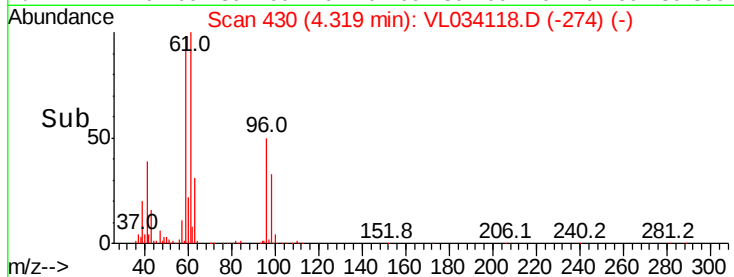
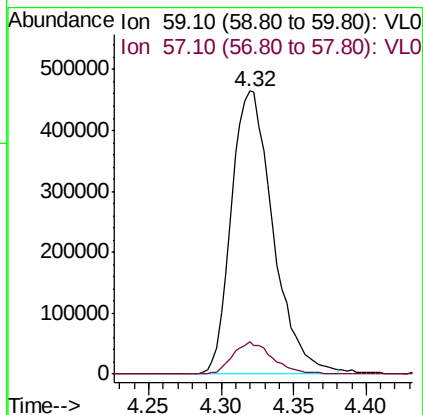
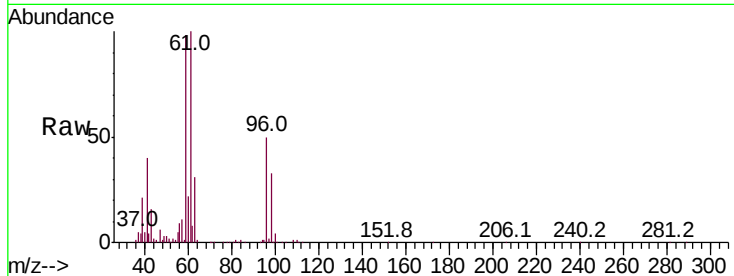
tert-Butyl alcohol
Concen: 6.458 ppbv
RT: 4.32 min Scan# 430
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.4	12.6

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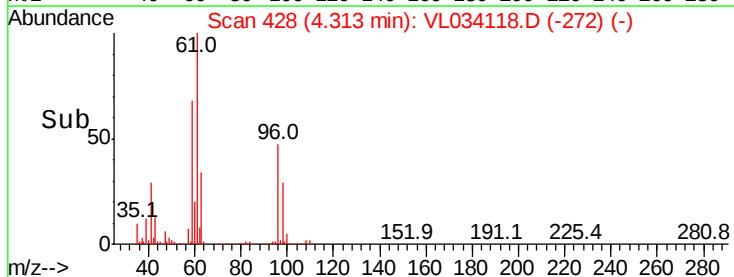
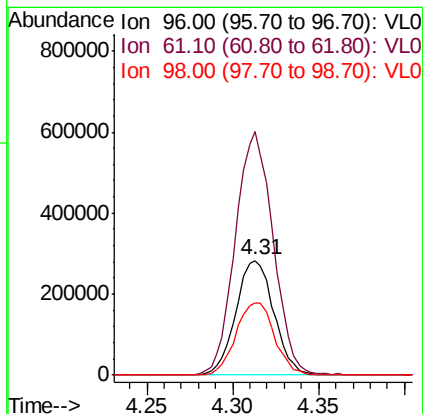
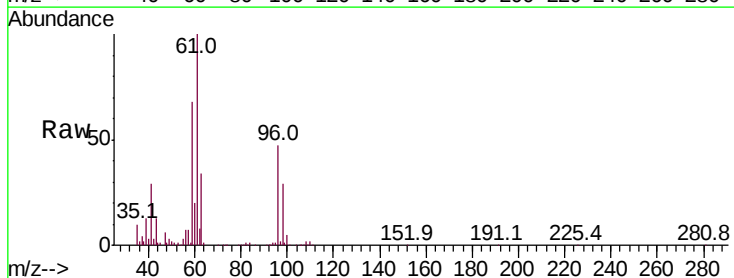
MMDadoda
8/16/2019 8:54:47 AM

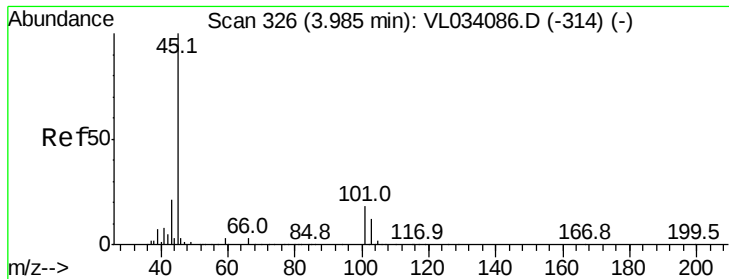


#18

1,1-Dichloroethene
Concen: 8.239 ppbv
RT: 4.31 min Scan# 428
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	212.6	173.1	259.7
98	62.7	50.3	75.5





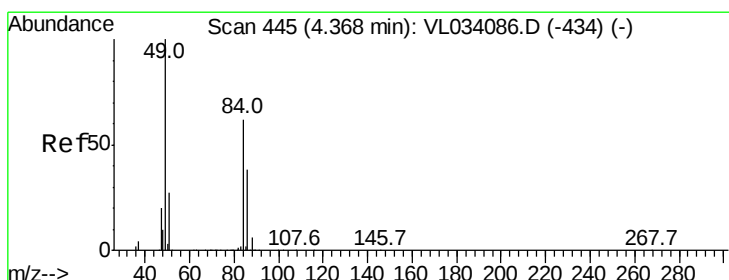
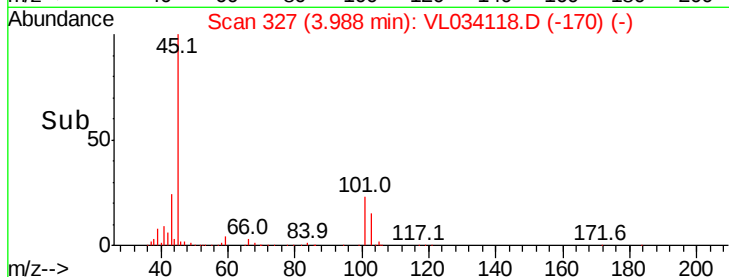
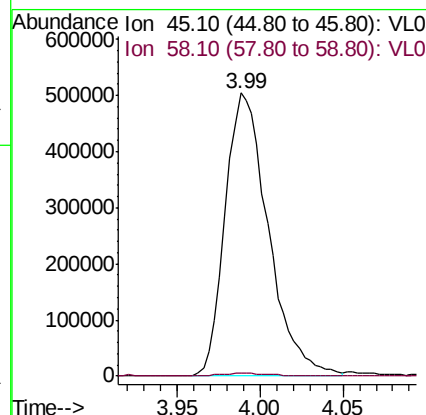
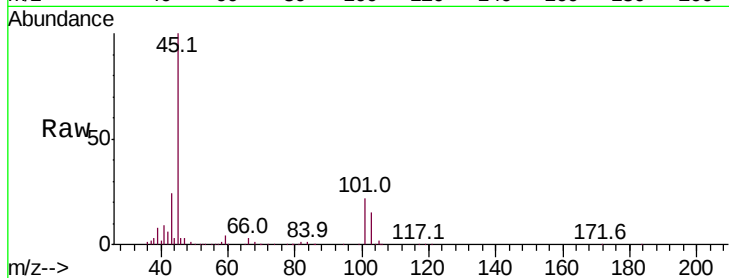
#19
Isopropyl Alcohol
Concen: 7.576 ppbv
RT: 3.99 min Scan# 327
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 910444
Ion Ratio Lower Upper
45 100
58 1.4 24.6 37.0#

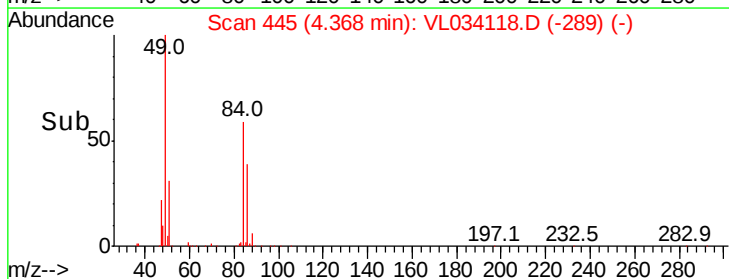
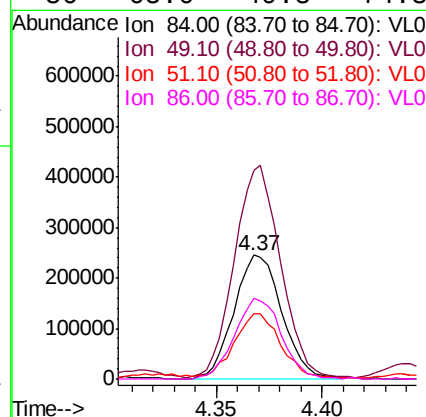
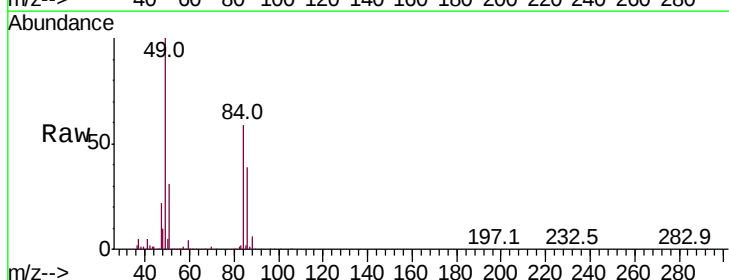
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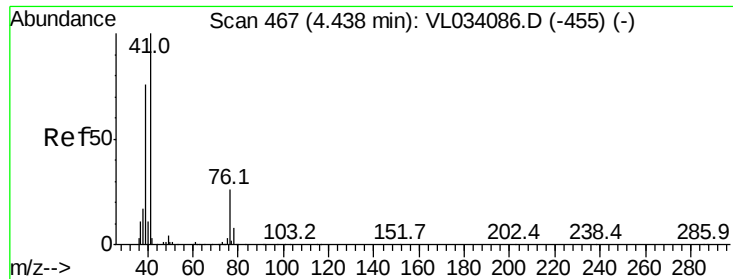
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#20
Methylene Chloride
Concen: 8.261 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion: 84 Resp: 382372
Ion Ratio Lower Upper
84 100
49 167.4 129.7 194.5
51 51.6 35.8 53.8
86 65.0 49.8 74.8





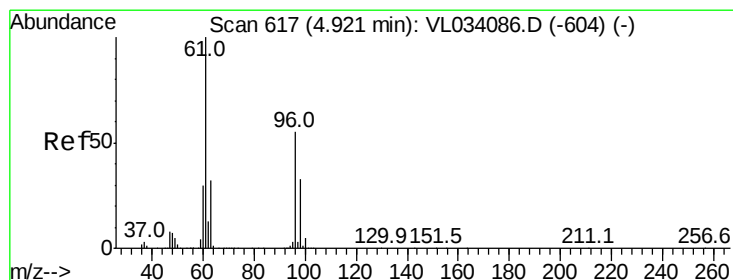
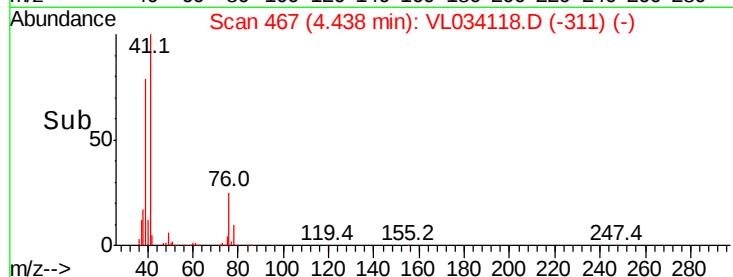
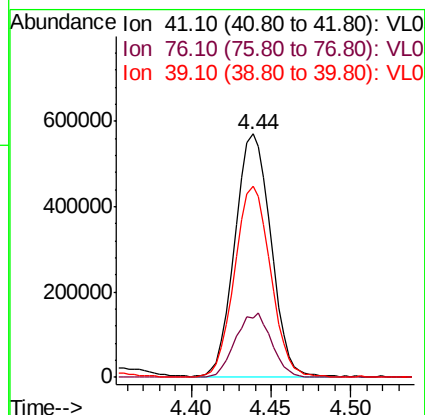
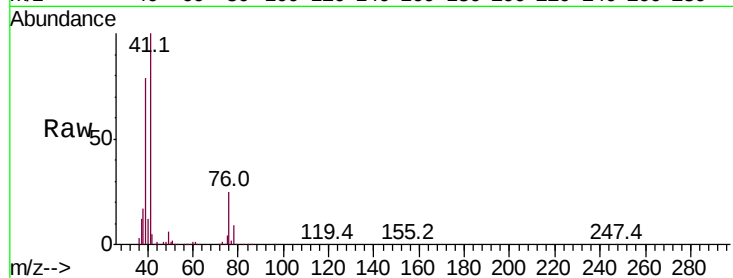
#21
Allvl Chloride
Concen: 8.143 ppbv
RT: 4.44 min Scan# 467
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
41	100	869915		
76	26.4		20.8	31.2
39	78.6		61.3	91.9

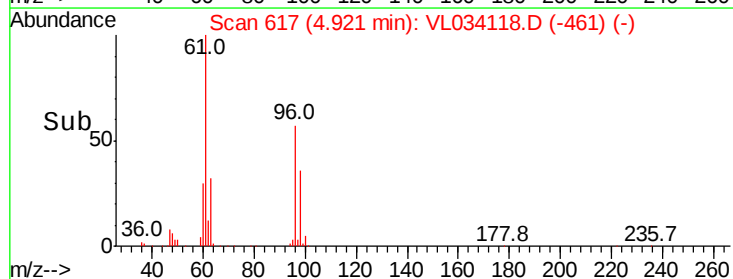
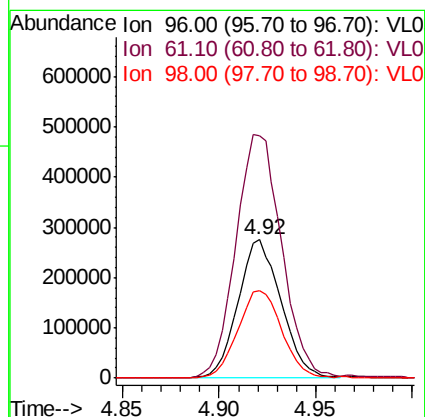
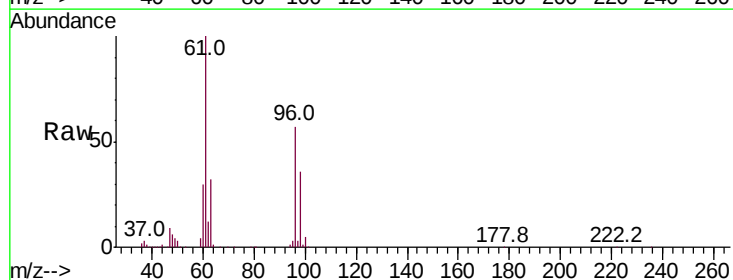
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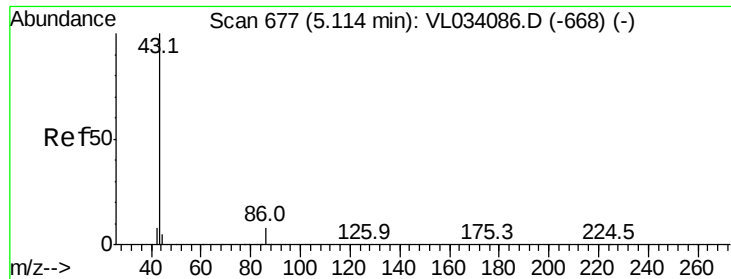
MMDadoda
8/16/2019 8:54:47 AM



#22
trans-1,2-Dichloroethene
Concen: 8.315 ppbv
RT: 4.92 min Scan# 617
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	424943		
61	175.0		144.2	216.2
98	62.8		48.0	72.0





#23

Vinyl Acetate

Concen: 8.353 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2137553

Ion Ratio Lower Upper

43 100

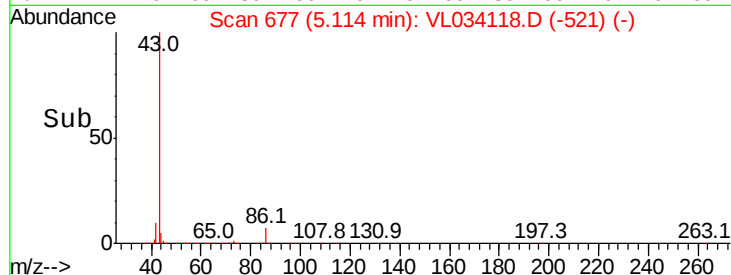
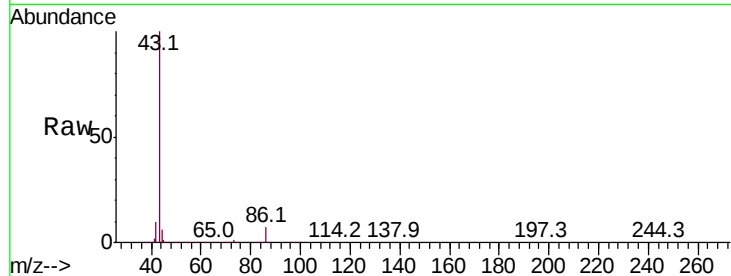
86 6.9 5.4 8.0

42 10.0 7.9 11.9

44 5.7 4.0 6.0

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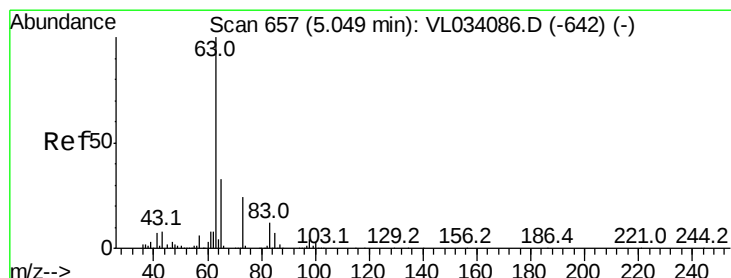
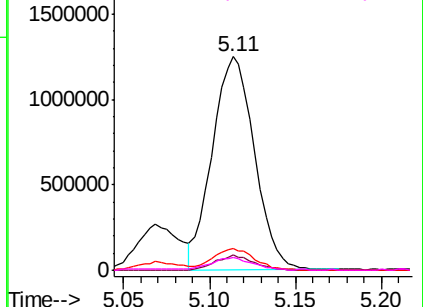


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.967 ppbv

RT: 5.05 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

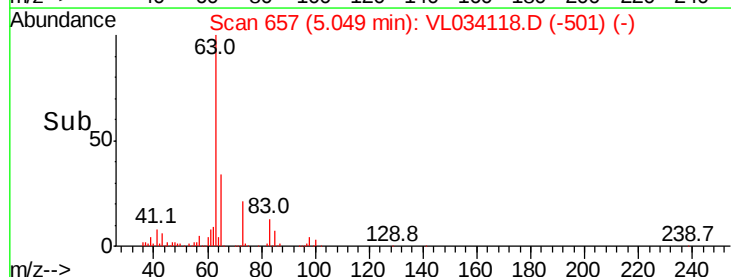
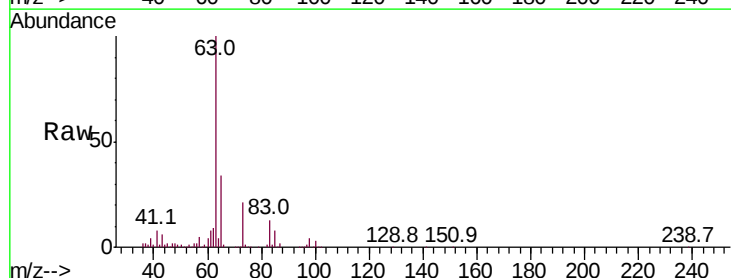
Tgt Ion: 63 Resp: 1365343

Ion Ratio Lower Upper

63 100

98 3.9 2.0 6.0

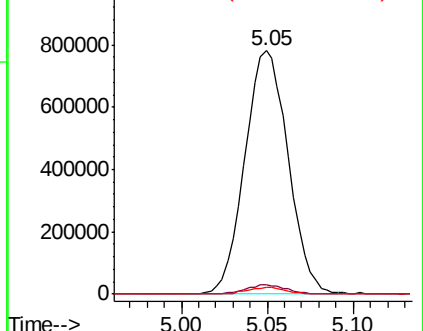
100 2.8 1.3 3.8

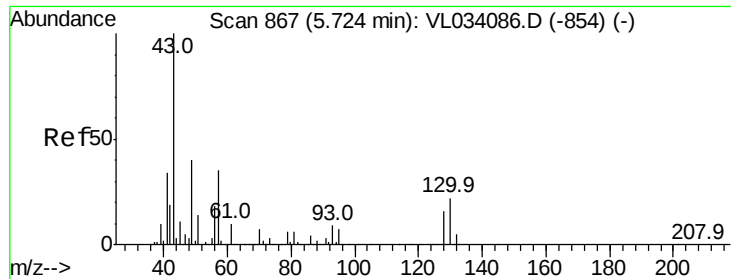


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.267 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2509607

Ion Ratio Lower Upper

43 100

45 10.4 8.4 12.6

61 9.3 7.3 10.9

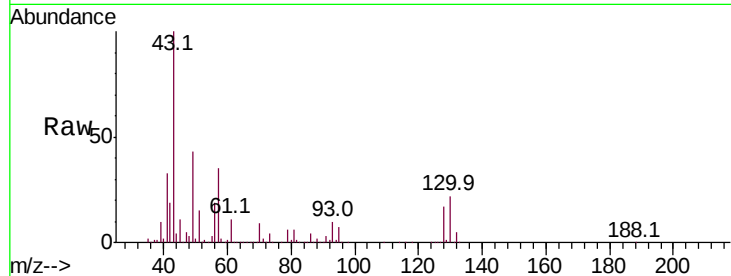
70 7.3 5.8 8.6

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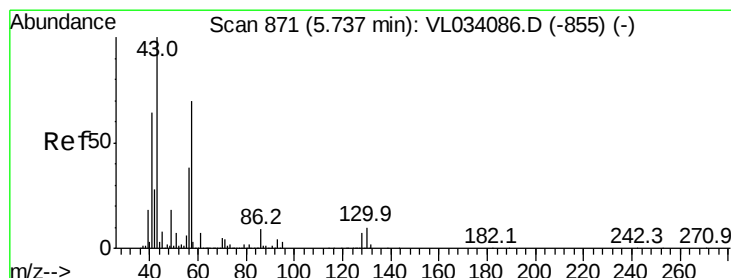
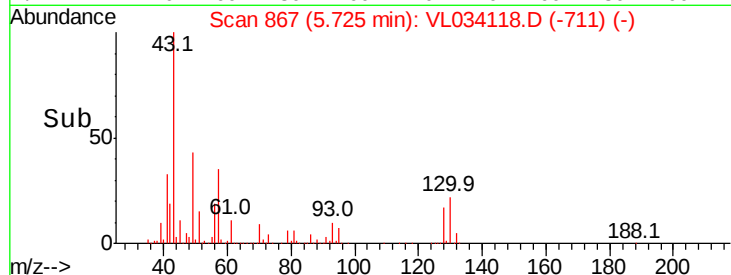
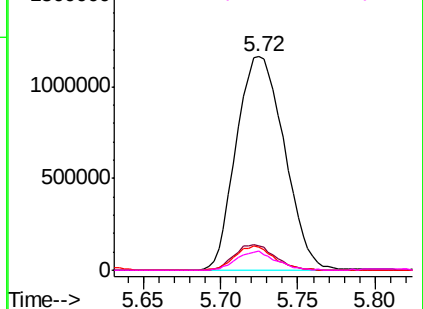


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.408 ppbv

RT: 5.74 min Scan# 871

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tgt Ion: 57 Resp: 1081974

Ion Ratio Lower Upper

57 100

41 94.4 75.7 113.5

43 233.8 189.8 284.8

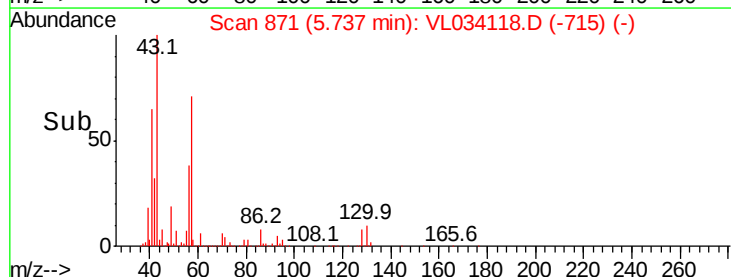
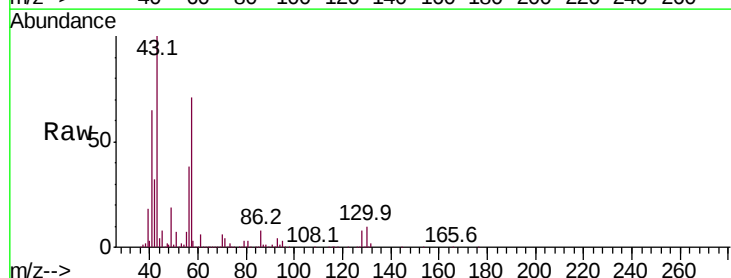
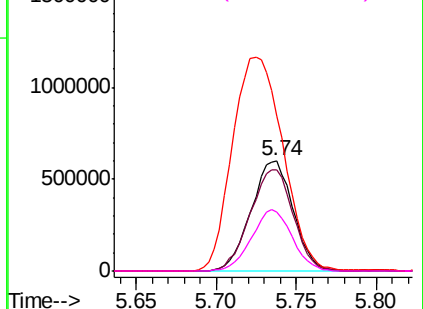
56 53.5 42.7 64.1

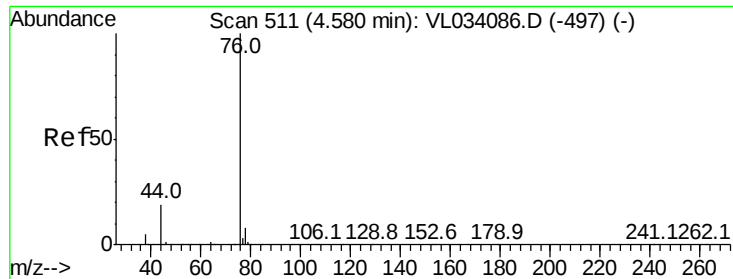
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 8.645 ppbv

RT: 4.58 min Scan# 511

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

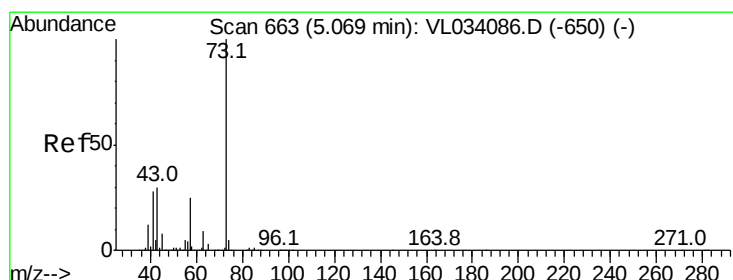
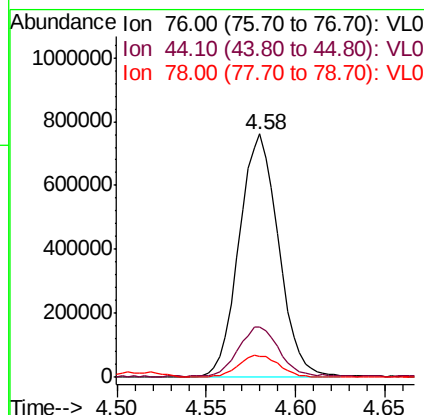
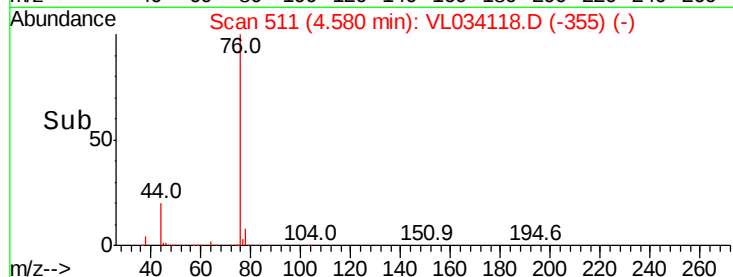
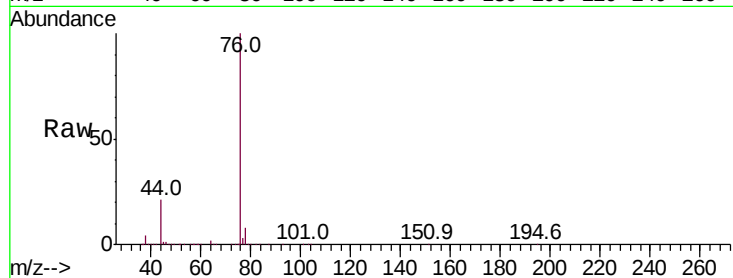
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 76 Resp: 1172798

Ion	Ratio	Lower	Upper
76	100		
44	21.6	17.8	26.6
78	9.3	7.7	11.5

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#28

Methyl tert-Butyl Ether

Concen: 7.911 ppbv

RT: 5.07 min Scan# 663

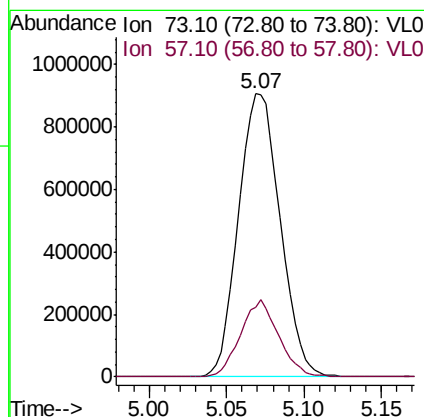
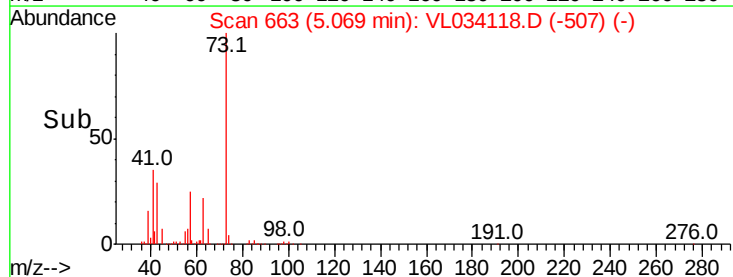
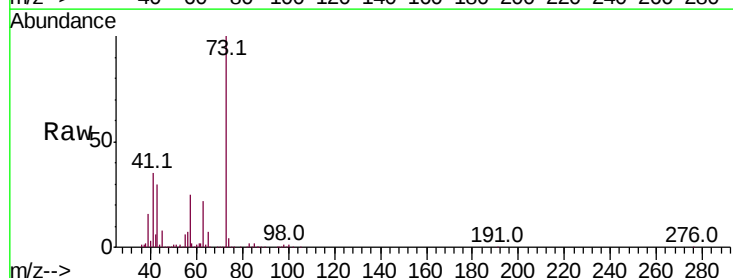
Delta R.T. 0.00 min

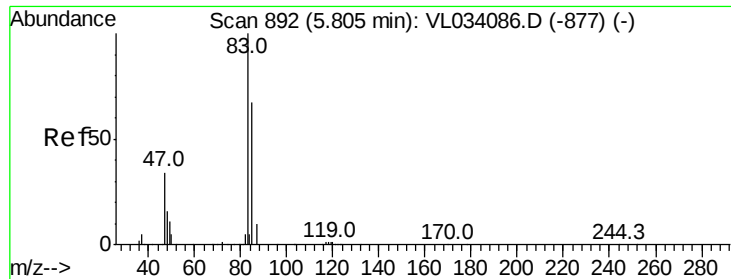
Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tgt Ion: 73 Resp: 1702306

Ion	Ratio	Lower	Upper
73	100		
57	25.2	19.5	29.3





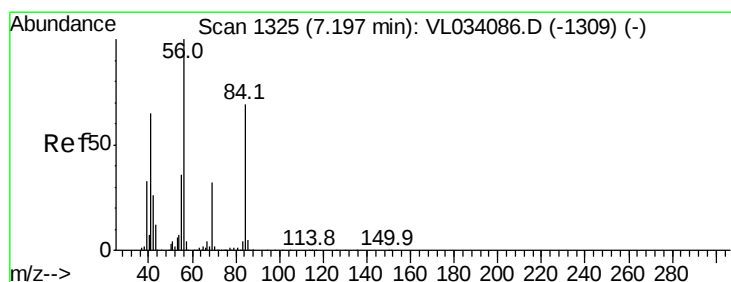
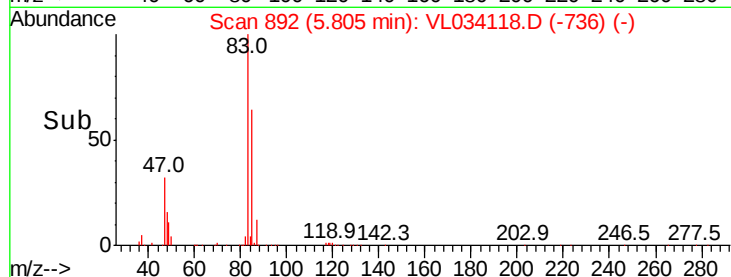
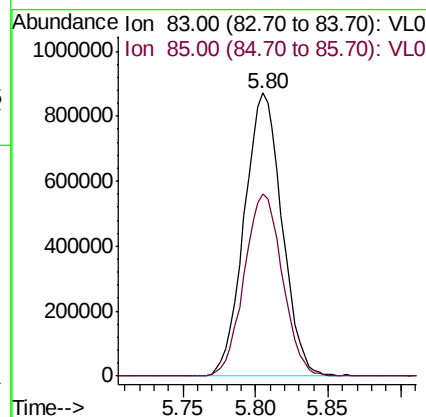
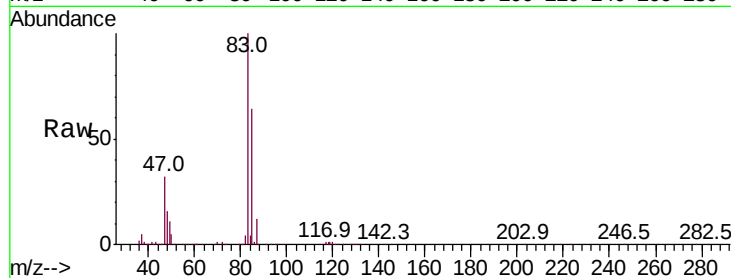
#29
Chloroform
Concen: 9.005 ppbv
RT: 5.80 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1575112
Ion Ratio Lower Upper
83 100
85 64.4 53.2 79.8

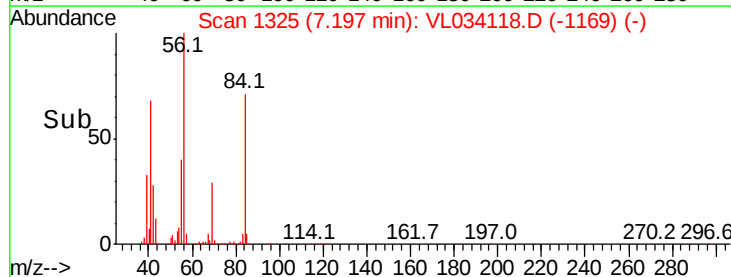
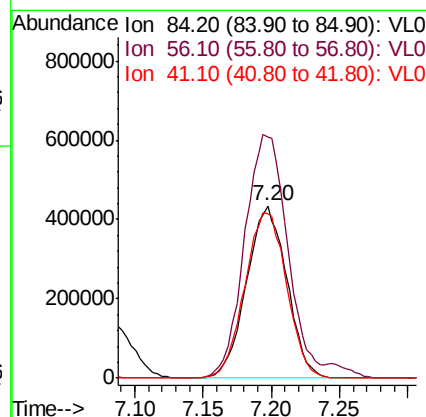
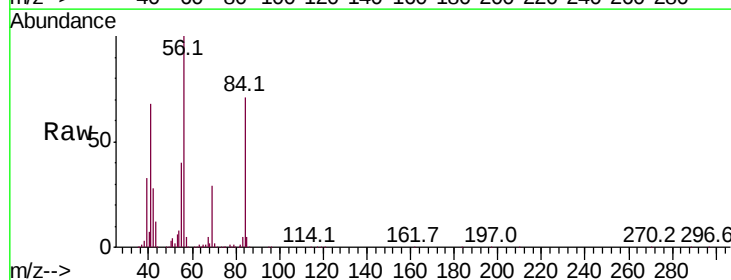
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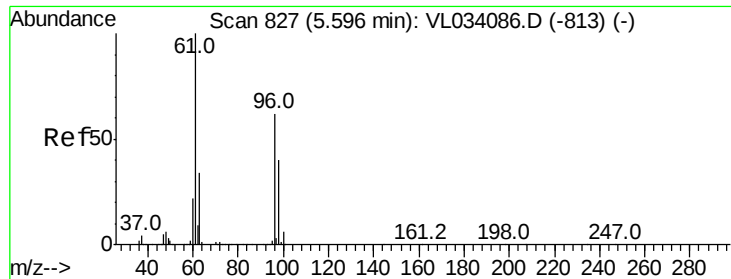
MMDadoda
8/16/2019 8:54:47 AM



#30
Cyclohexane
Concen: 8.751 ppbv
RT: 7.20 min Scan# 1325
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion: 84 Resp: 889535
Ion Ratio Lower Upper
84 100
56 155.7 122.6 184.0
41 100.2 80.1 120.1





#31

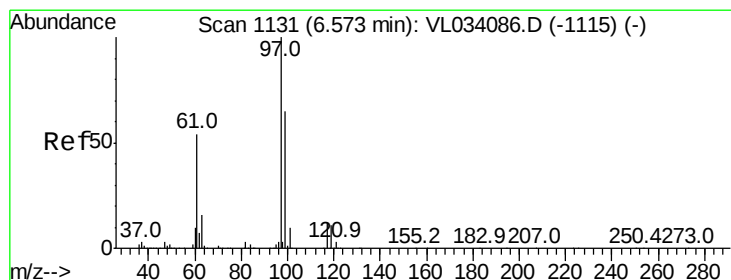
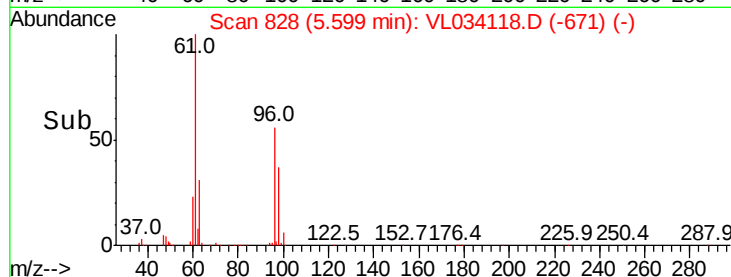
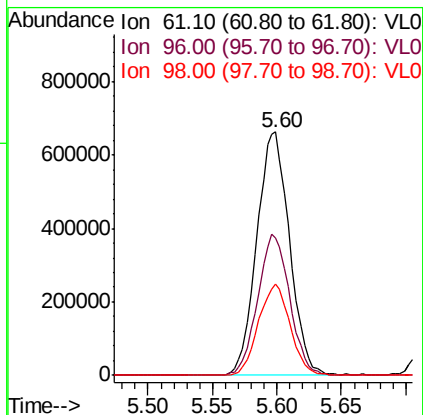
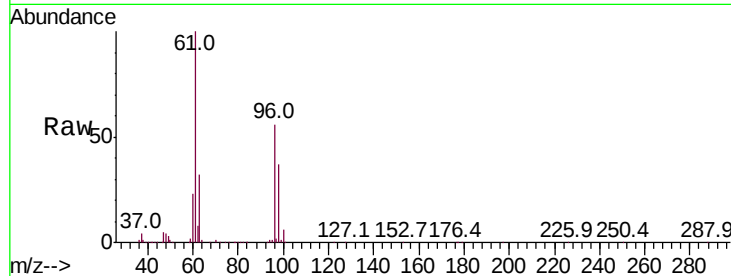
cis-1,2-Dichloroethene
Concen: 9.229 ppbv
RT: 5.60 min Scan# 828
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	56.1	49.3	73.9
98	37.5	32.4	48.6

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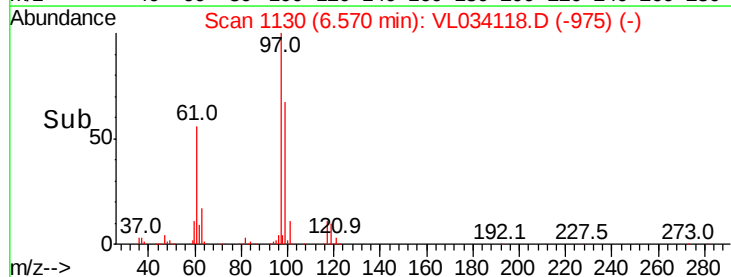
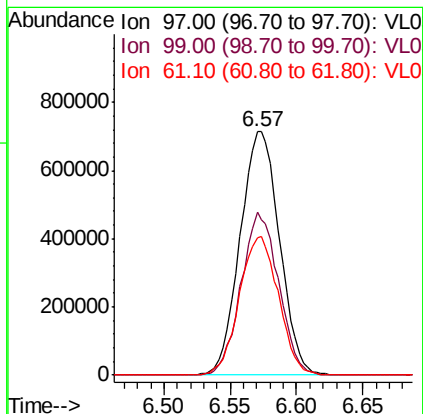
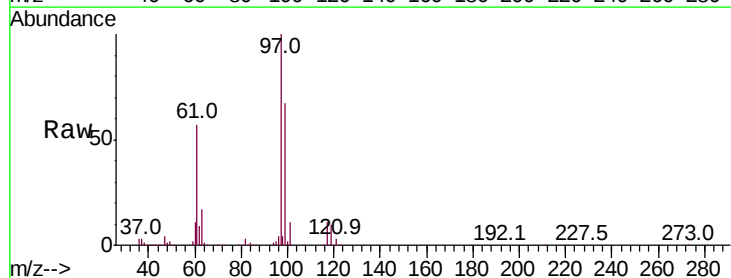
MMDadoda
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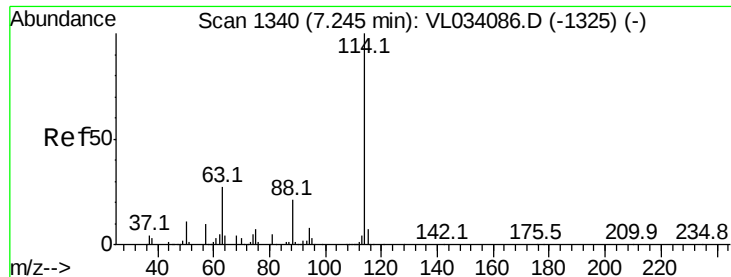


#32

1,1,1-Trichloroethane
Concen: 8.535 ppbv
RT: 6.57 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	52.2	78.4
61	56.7	42.0	63.0





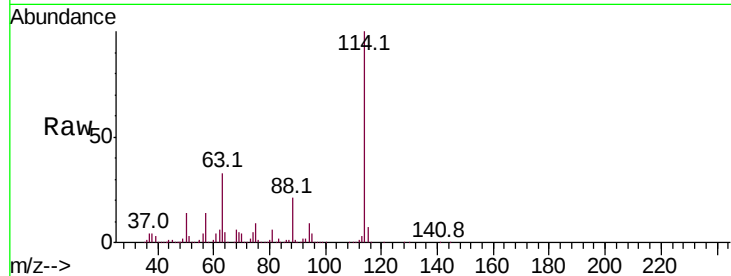
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

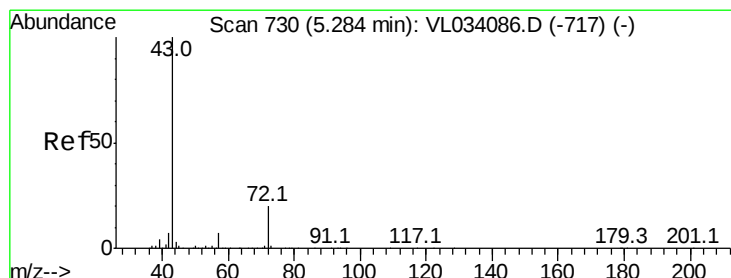
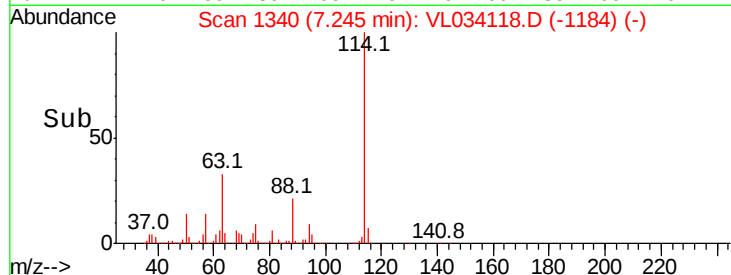
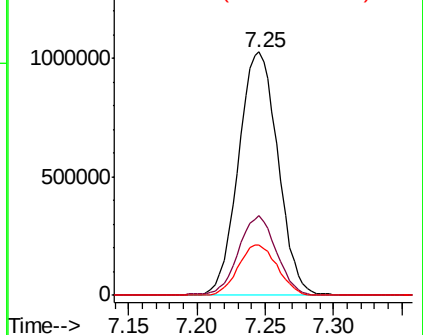
Tot Ion	Ratio	Lower	Upper
114	100		
63	31.9	22.5	33.7
88	20.6	15.7	23.5

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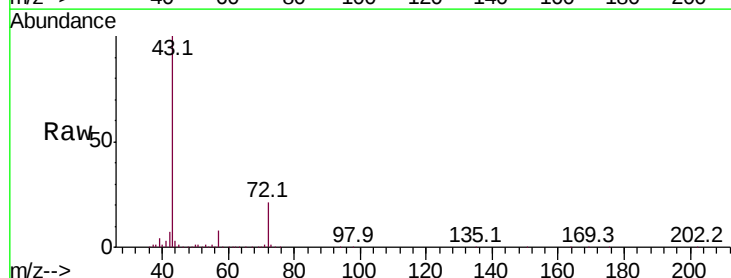


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

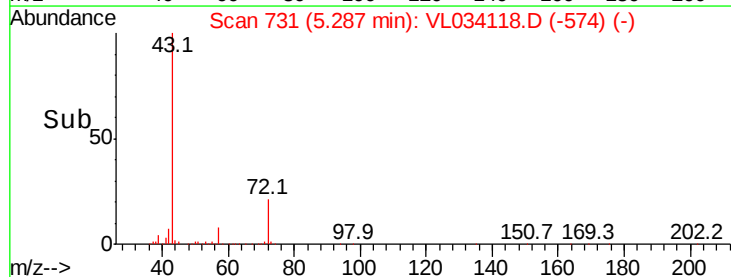
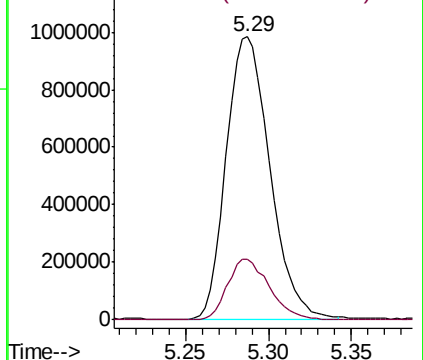


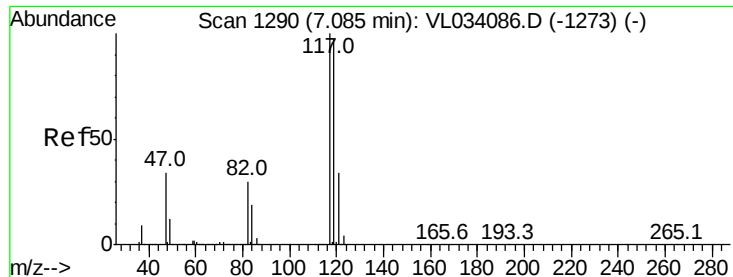
#34
 2-Butanone
 Concen: 9.363 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.0	16.0	24.0



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.943 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1415156

Ion Ratio Lower Upper

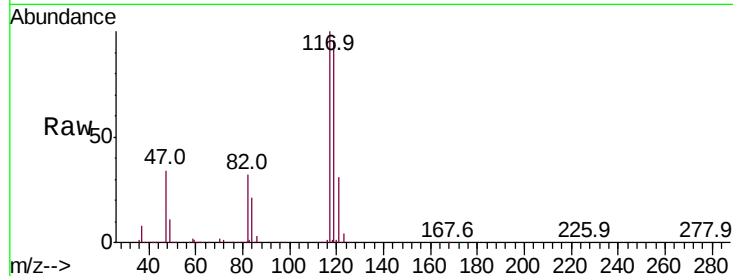
117 100

119 96.2 77.8 116.6

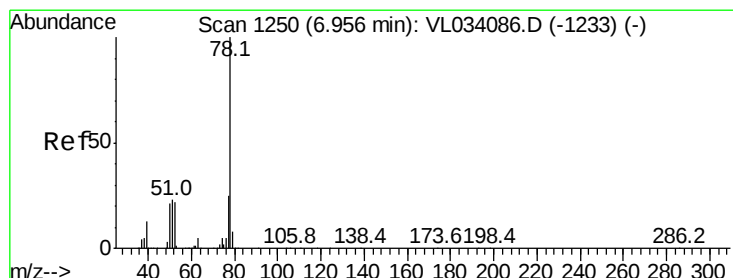
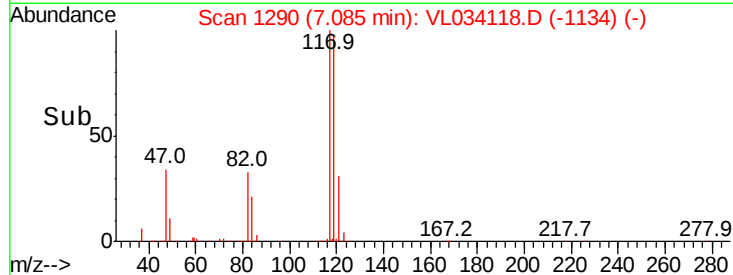
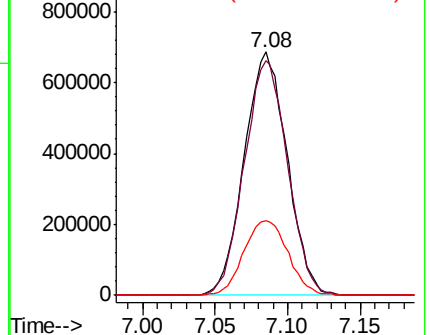
121 30.6 27.4 41.2

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



#36

Benzene

Concen: 9.240 ppbv

RT: 6.96 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

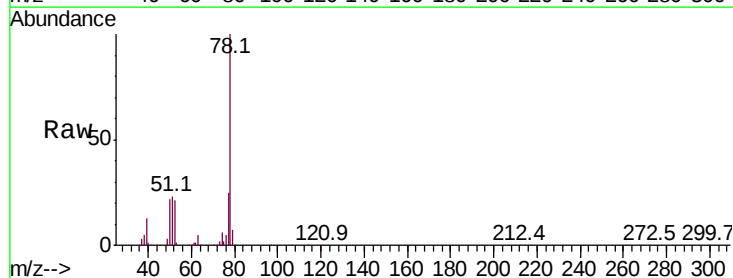
Tgt Ion: 78 Resp: 2165343

Ion Ratio Lower Upper

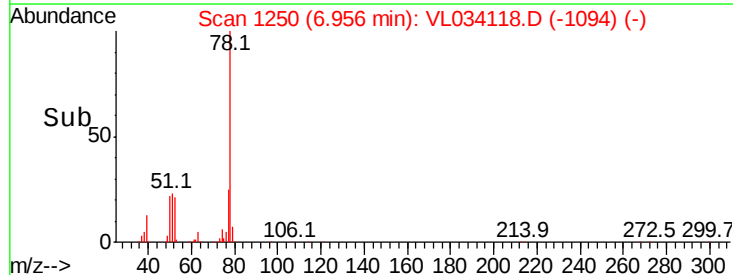
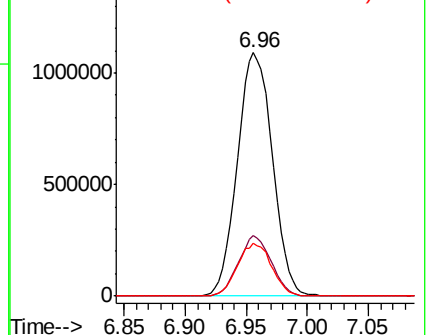
78 100

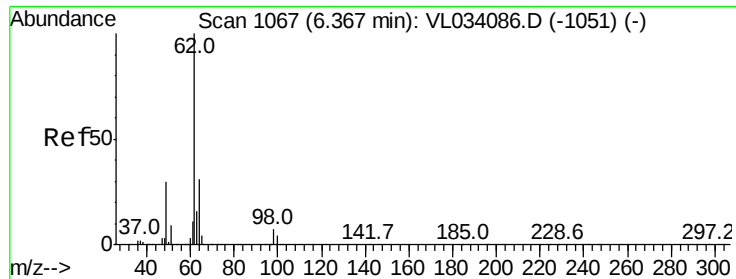
77 24.6 19.9 29.9

50 21.7 16.7 25.1



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





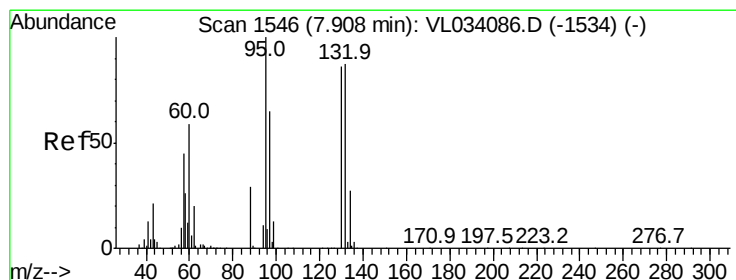
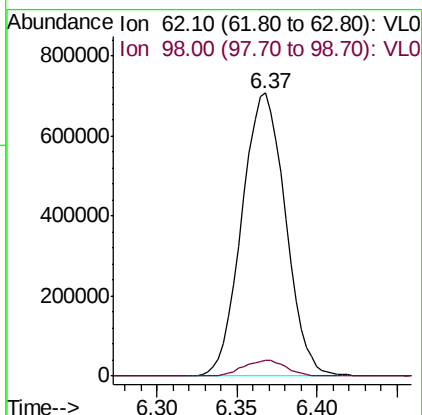
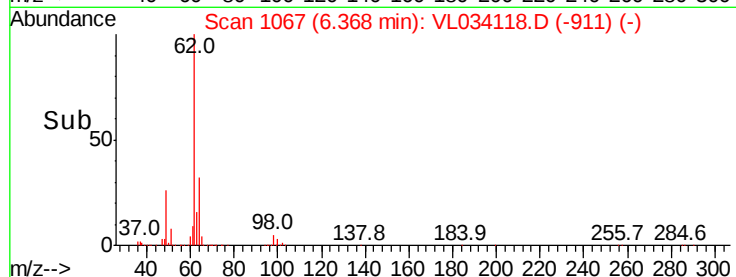
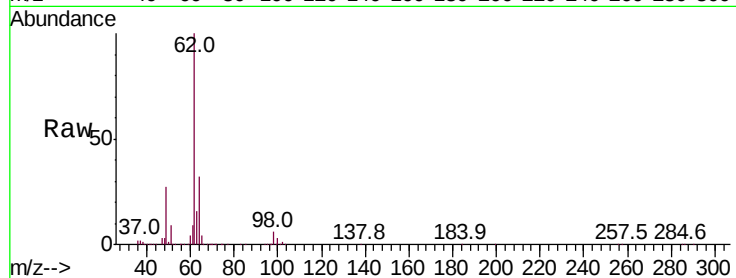
#37
 1,2-Dichloroethane
 Concen: 10.458 ppbv
 RT: 6.37 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1318534
 Ion Ratio Lower Upper
 62 100
 98 5.6 4.9 7.3

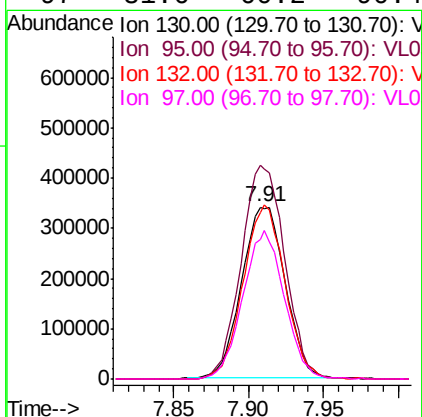
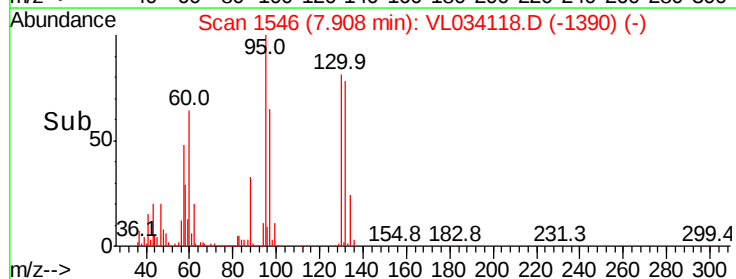
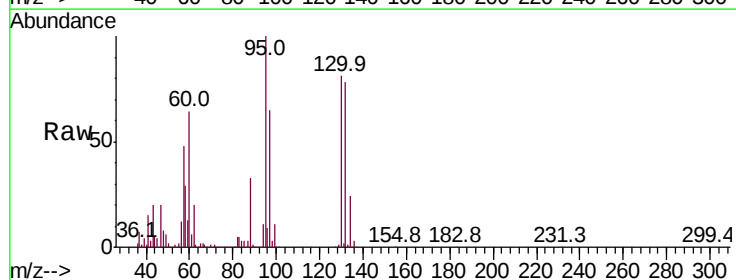
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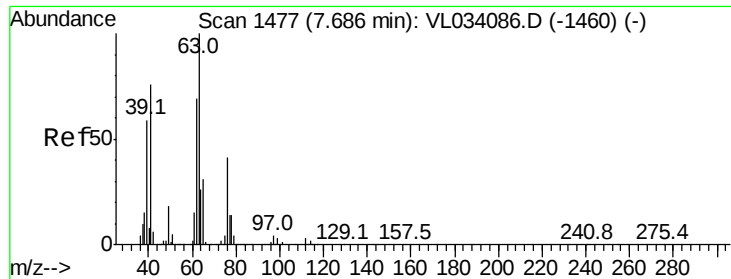
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#38
 Trichloroethene
 Concen: 7.609 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion:130 Resp: 690585
 Ion Ratio Lower Upper
 130 100
 95 124.6 92.1 138.1
 132 96.9 79.7 119.5
 97 81.6 60.2 90.4





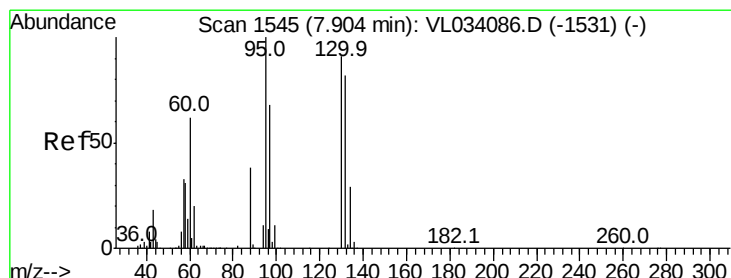
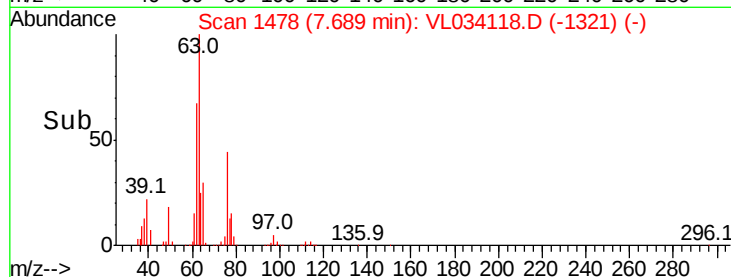
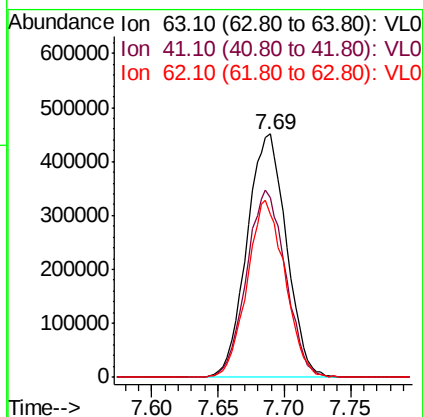
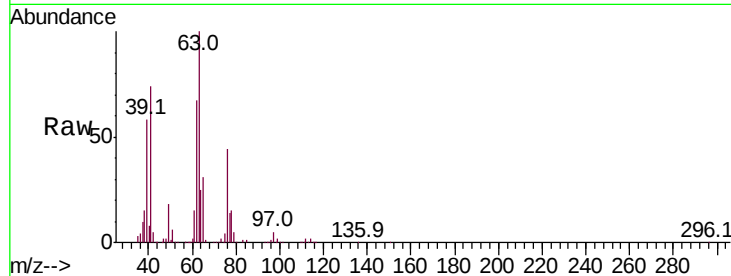
#39
 1,2-Dichloropropane
 Concen: 9.847 ppbv
 RT: 7.69 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:	63	Resp:	931124
Ion Ratio	Lower	Upper	
63	100		
41	73.5	60.6	91.0
62	67.0	55.0	82.6

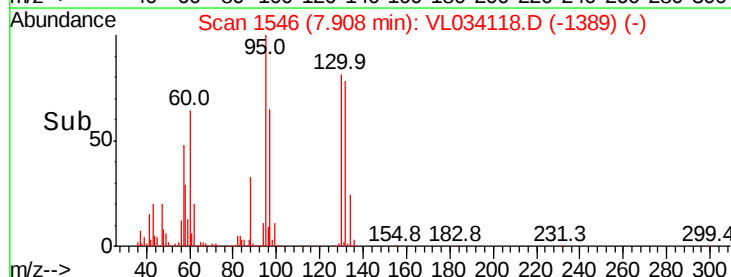
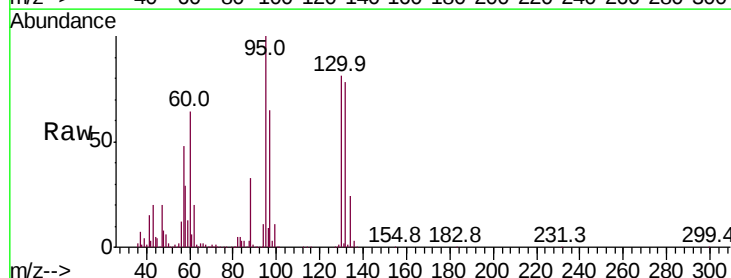
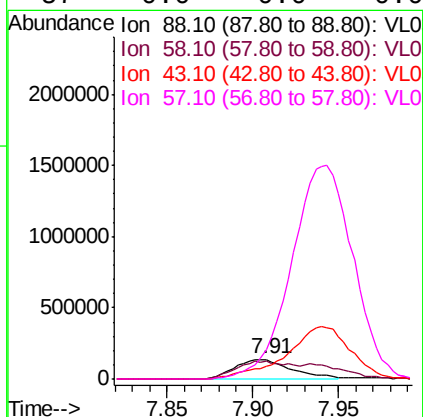
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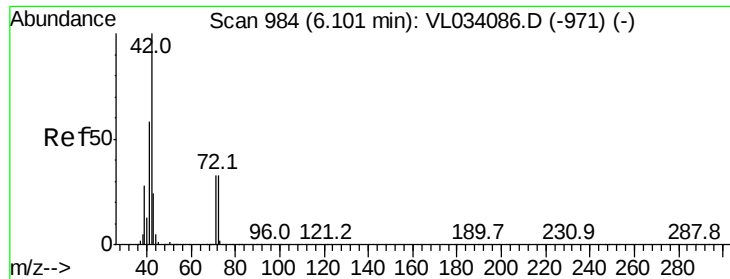
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#40
 1,4-Dioxane
 Concen: 8.786 ppbv
 RT: 7.91 min Scan# 1546
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion:	88	Resp:	313472
Ion Ratio	Lower	Upper	
88	100		
58	149.0	113.0	169.4
43	0.0	0.0	0.0
57	0.0	0.0	0.0





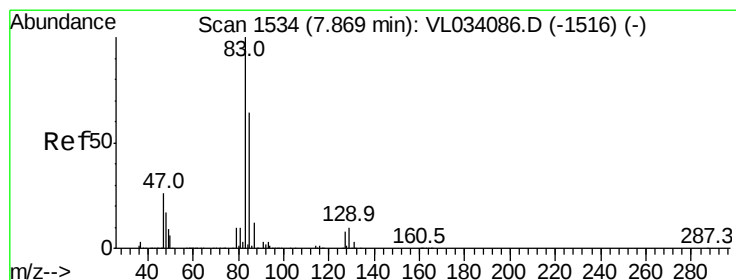
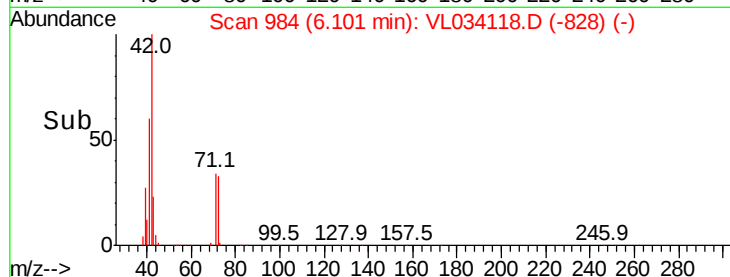
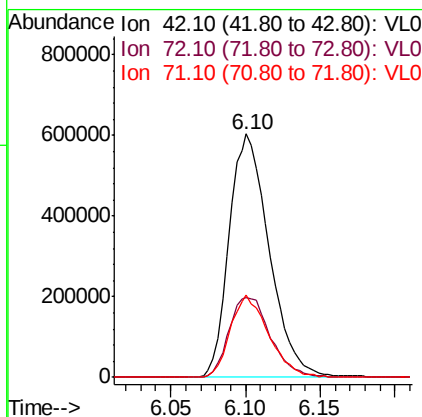
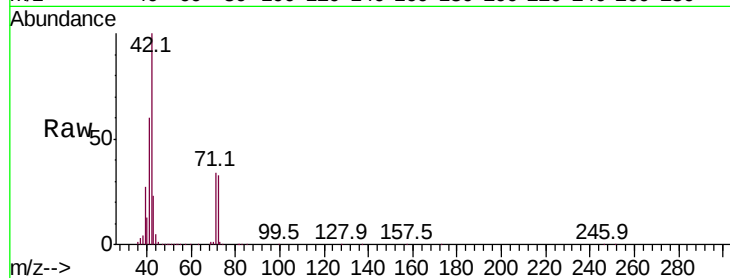
#41
Tetrahydrofuran
Concen: 9.547 ppbv
RT: 6.10 min Scan# 984
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.3	26.9	40.3
71	32.6	26.5	39.7

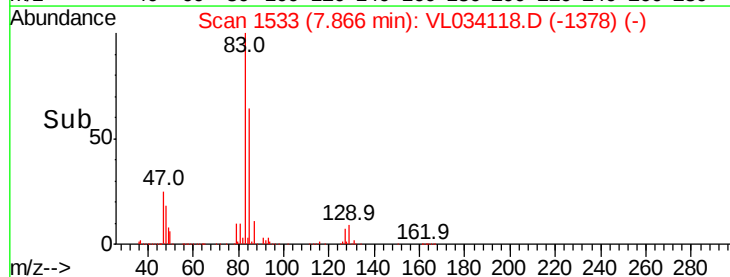
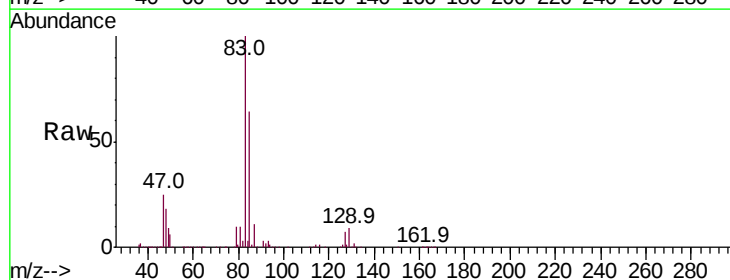
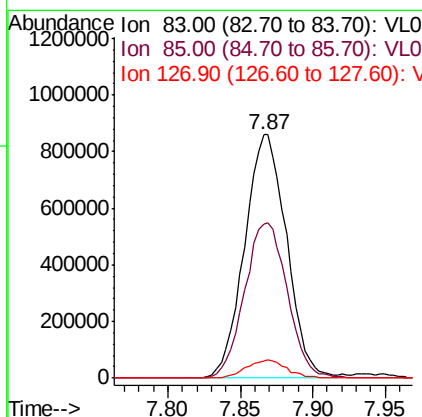
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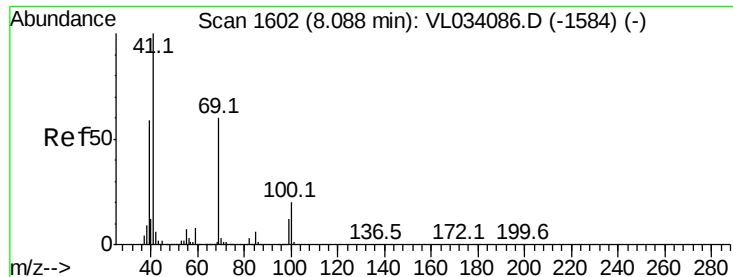
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#42
Bromodichloromethane
Concen: 9.806 ppbv
RT: 7.87 min Scan# 1533
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.9	76.3
127	7.2	6.1	9.1





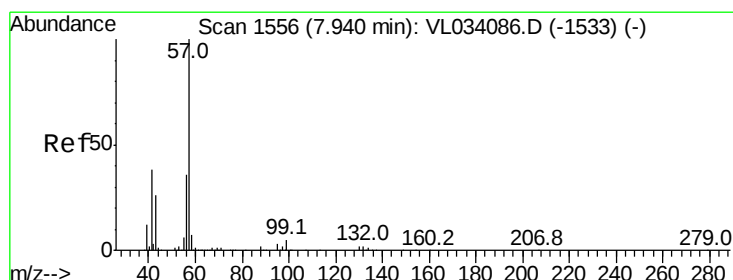
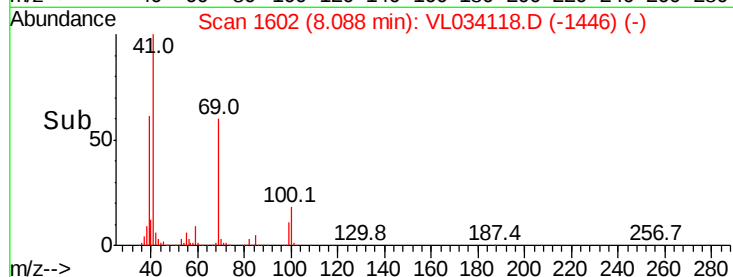
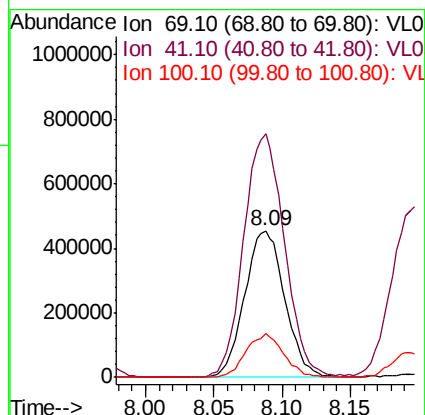
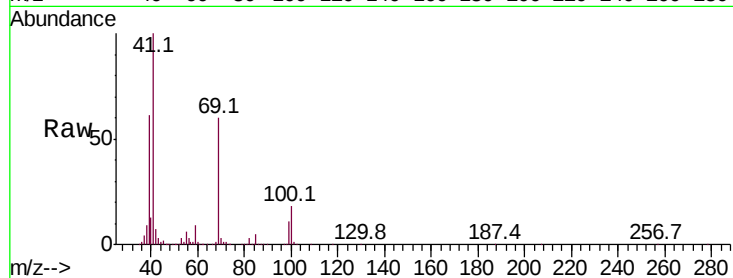
#43
Methvl Methacrvlate
Concen: 9.634 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	168.7	132.9	199.3
100	28.1	25.8	38.8

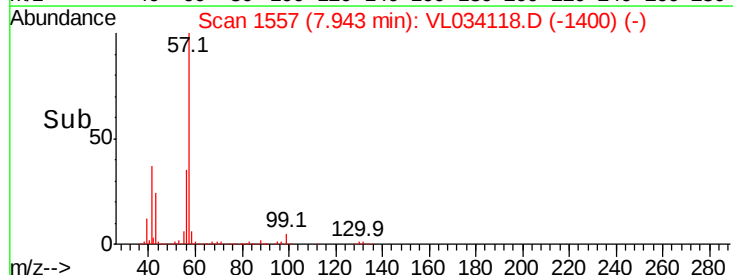
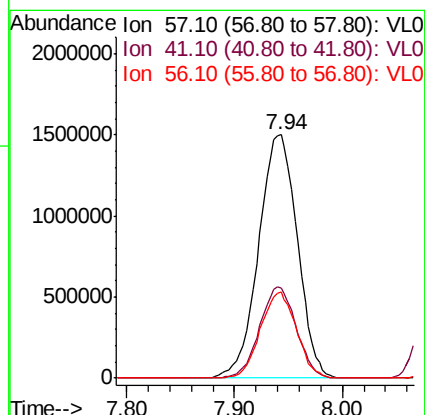
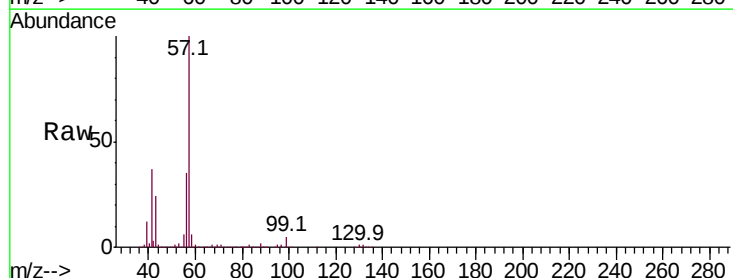
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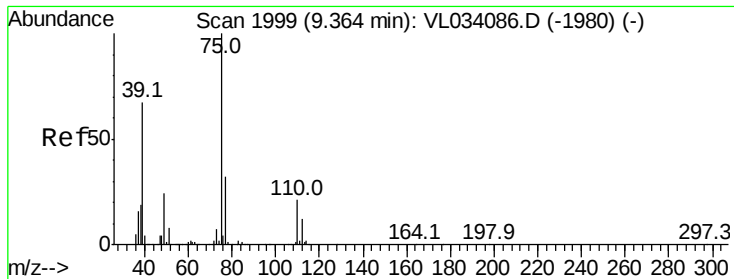
MMDadoda
8/16/2019 8:54:47 AM



#44
2,2,4-Trimethylpentane
Concen: 8.899 ppbv
RT: 7.94 min Scan# 1557
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	35.5	29.2	43.8
56	32.9	26.7	40.1





#45

t-1,3-Dichloropropene

Concen: 9.690 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1180736

Ion Ratio Lower Upper

75 100

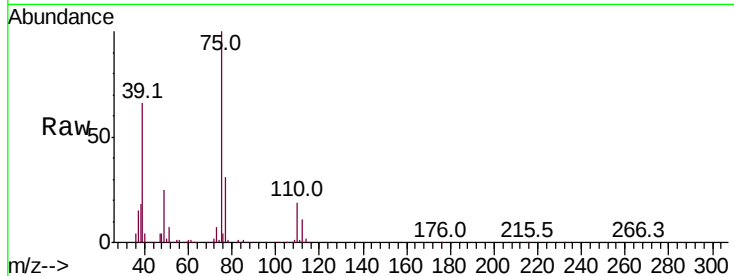
77 31.4 25.7 38.5

Manual Integrations

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.36

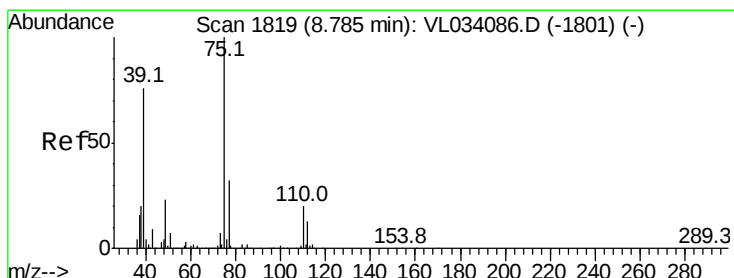
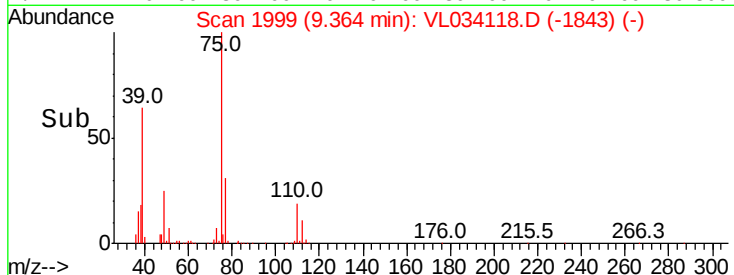
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.601 ppbv

RT: 8.78 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

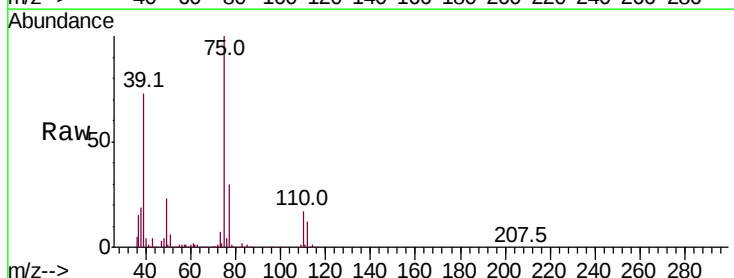
Tgt Ion: 75 Resp: 1350058

Ion Ratio Lower Upper

75 100

39 73.4 61.0 91.4

77 29.6 25.6 38.4



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

8.78

800000

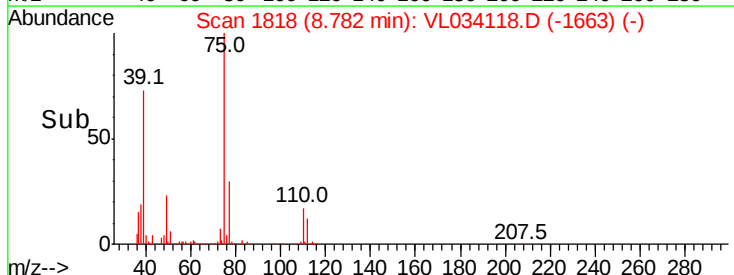
600000

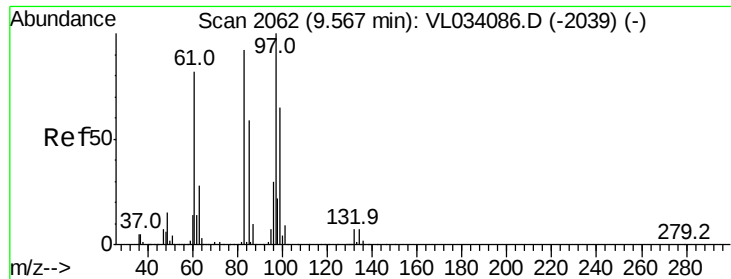
400000

200000

0

Time-->





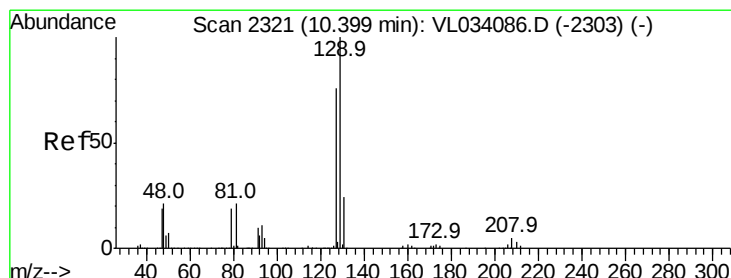
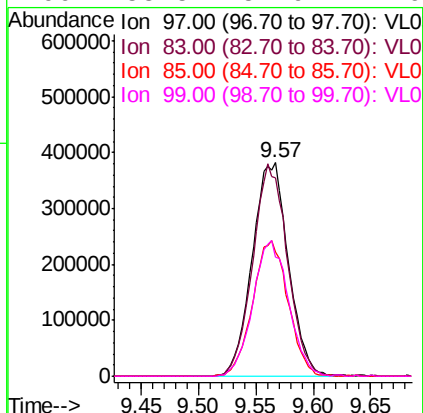
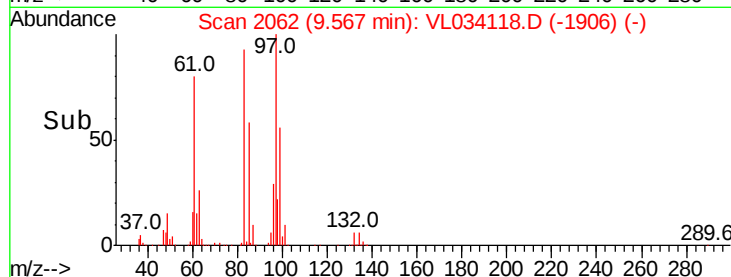
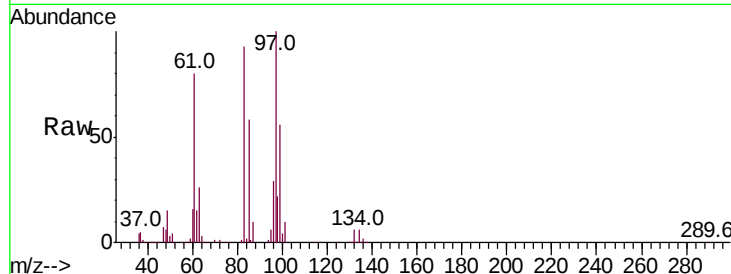
#47
 1,1,2-Trichloroethane
 Concen: 9.264 ppbv m
 RT: 9.57 min Scan# 2062
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.1	74.0	111.0
85	58.1	47.1	70.7
99	55.5	51.9	77.9

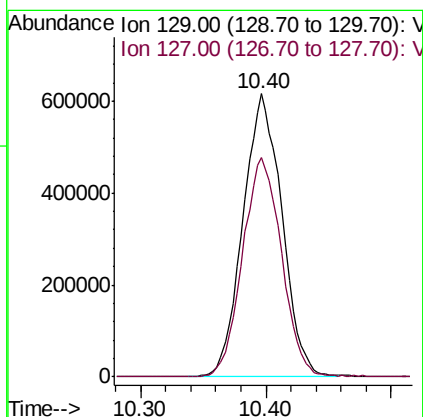
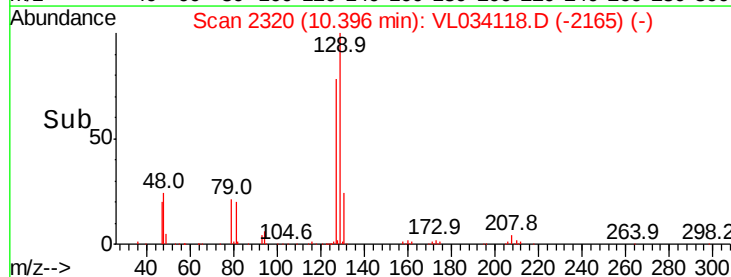
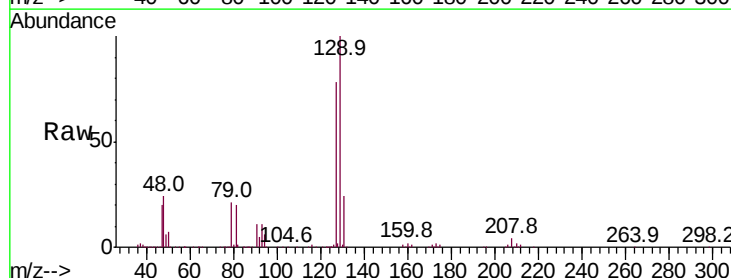
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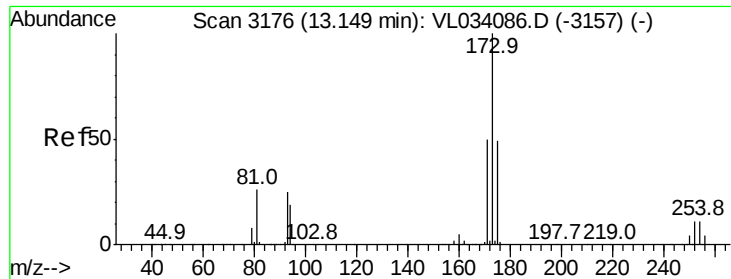
MMDadoda
 8/16/2019 8:54:47 AM



#48
 Dibromochloromethane
 Concen: 9.172 ppbv
 RT: 10.40 min Scan# 2320
 Delta R.T. -0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.4	118.2





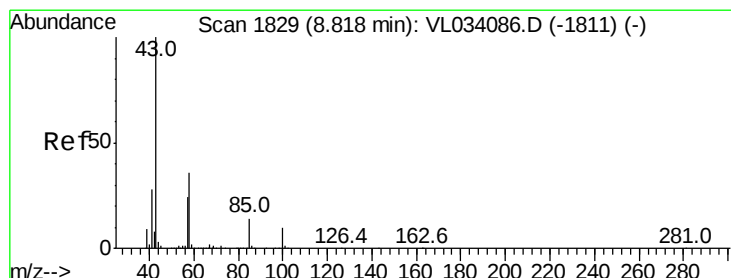
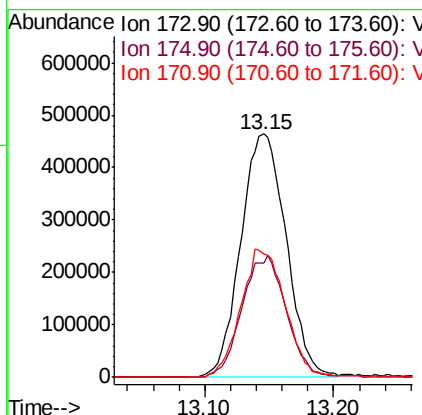
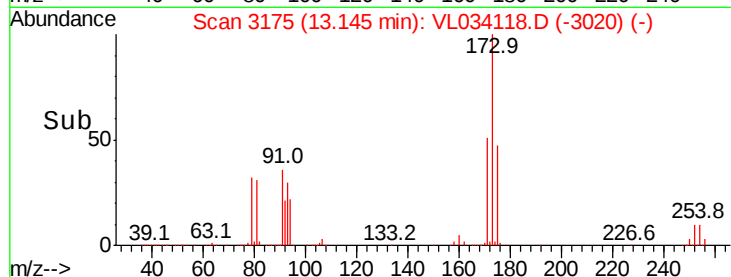
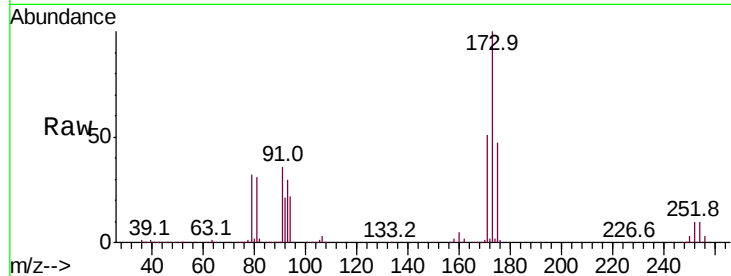
#49
Bromoform
Concen: 8.781 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1138023
Ion Ratio Lower Upper
173 100
175 49.0 39.8 59.8
171 51.7 42.7 64.1

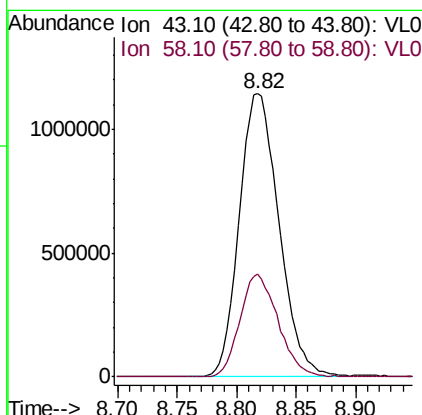
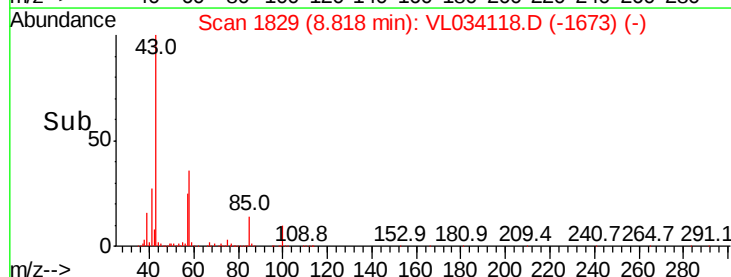
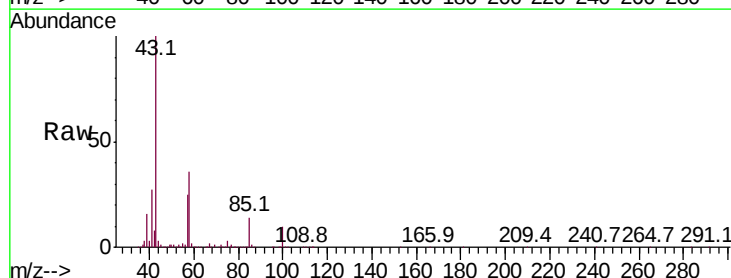
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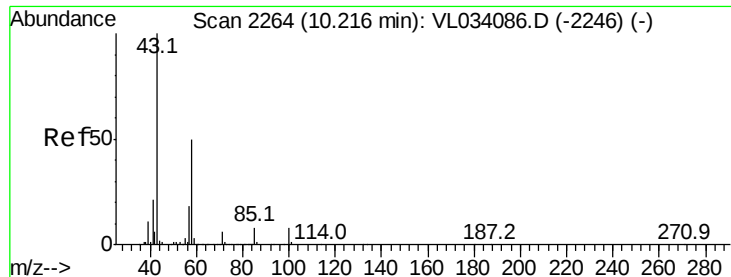
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.066 ppbv
RT: 8.82 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion: 43 Resp: 2644892
Ion Ratio Lower Upper
43 100
58 35.1 28.2 42.2





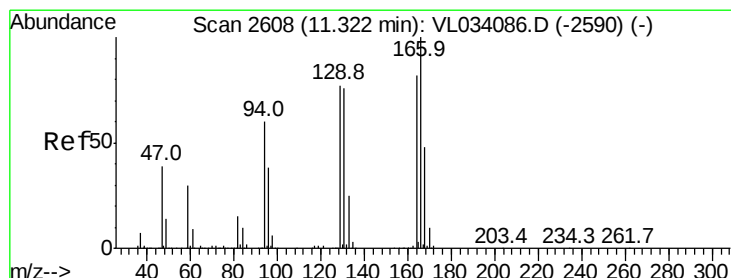
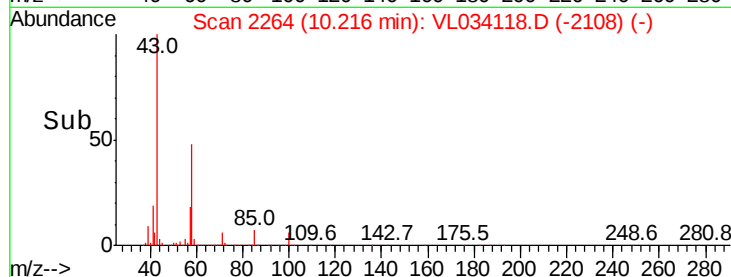
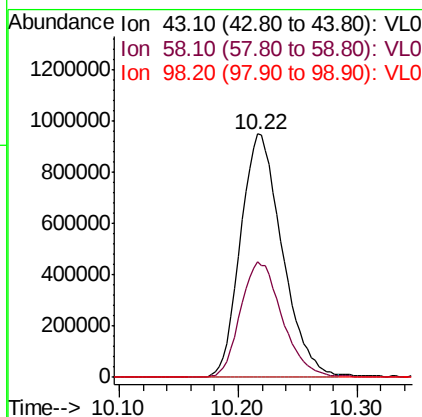
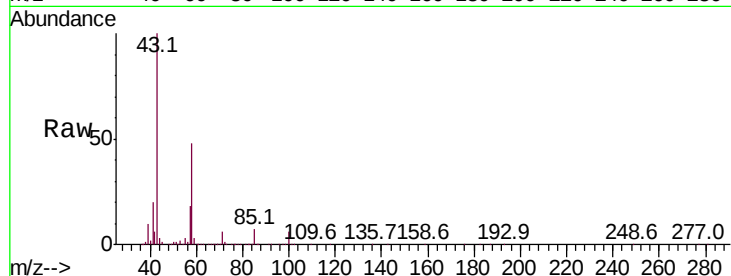
#51
2-Hexanone
Concen: 9.370 ppbv
RT: 10.22 min Scan# 2264
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.5	57.7
98	0.1	0.0	0.0#

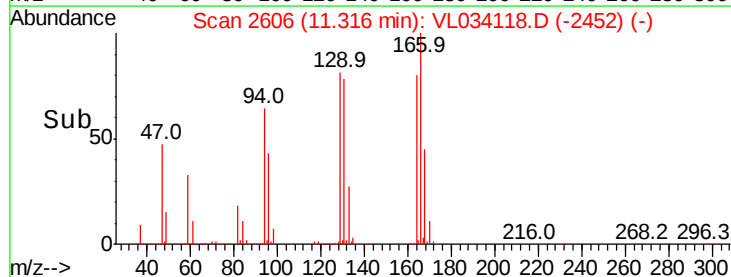
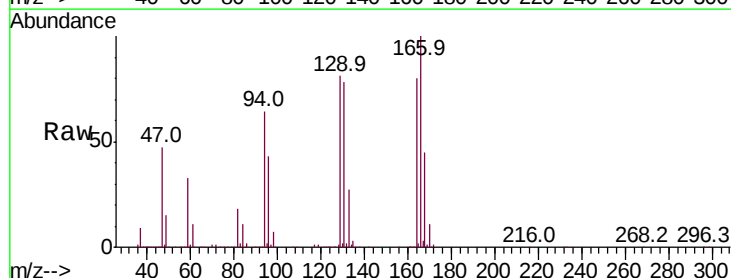
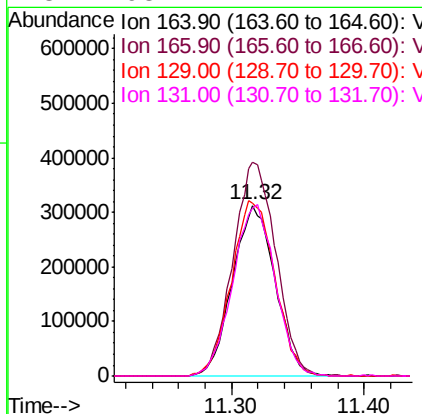
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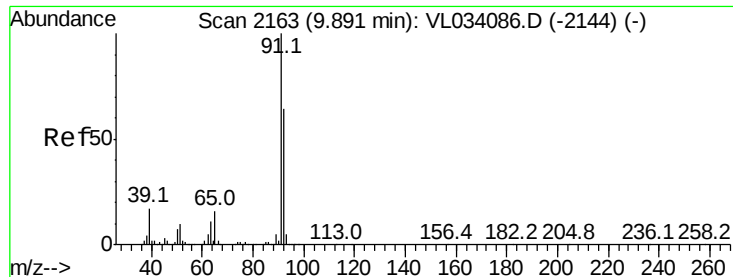
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#52
Tetrachloroethene
Concen: 7.633 ppbv
RT: 11.32 min Scan# 2606
Delta R.T. -0.01 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	96.8	145.2
129	101.2	74.9	112.3
131	98.1	74.2	111.2





#53

Toluene

Concen: 8.879 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2401106

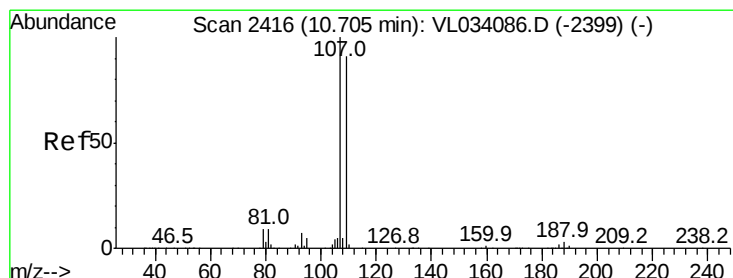
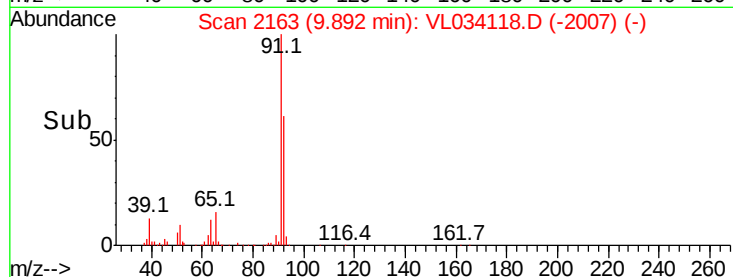
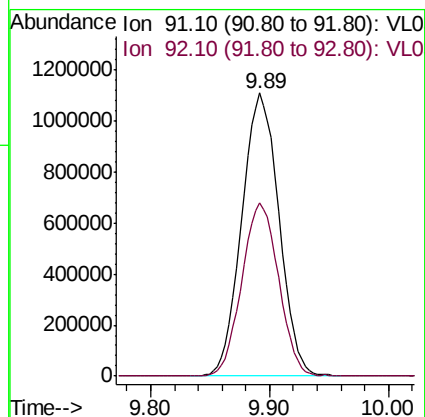
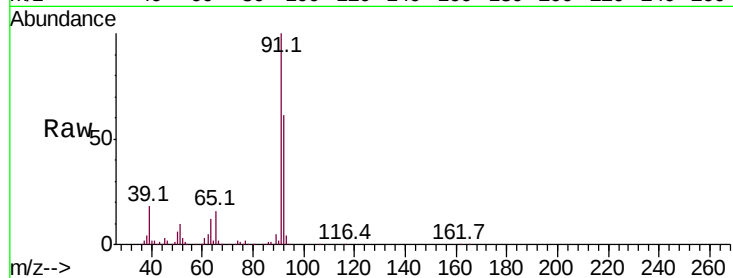
Ion Ratio Lower Upper

91 100

92 60.7 50.3 75.5

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#54

1,2-Dibromoethane

Concen: 9.236 ppbv

RT: 10.70 min Scan# 2415

Delta R.T. -0.00 min

Lab File: VL034118.D

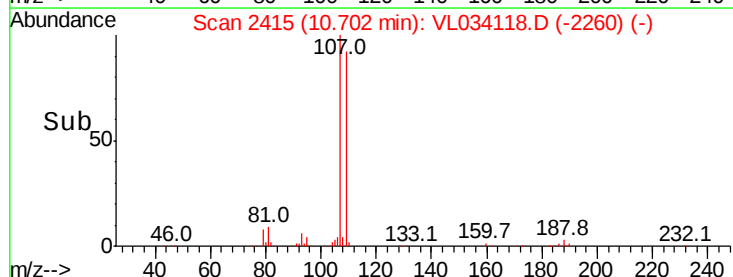
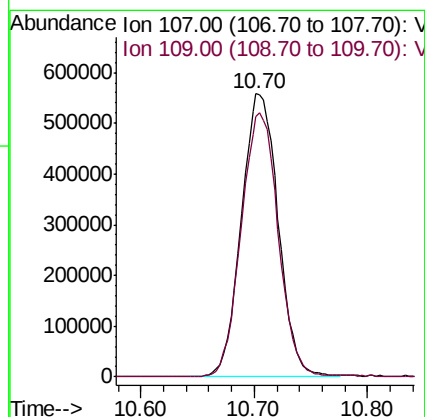
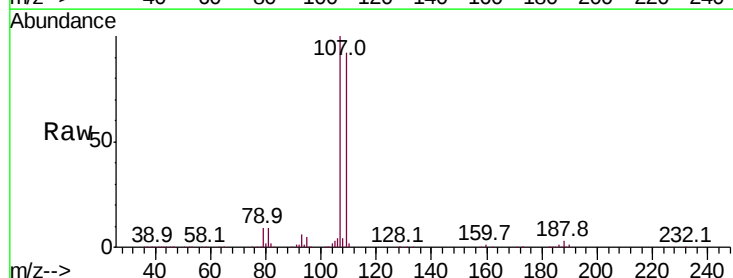
Acq: 13 Aug 2019 9:33

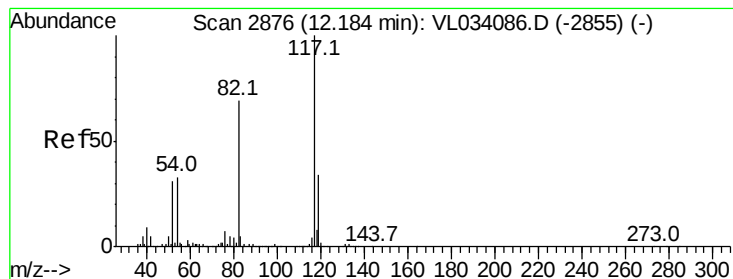
Tgt Ion: 107 Resp: 1264838

Ion Ratio Lower Upper

107 100

109 91.9 72.9 109.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.18 min Scan# 2875

Delta R.T. -0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2297681

Ion Ratio Lower Upper

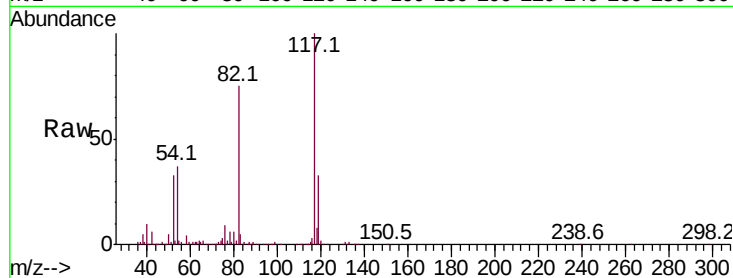
117 100

82 70.4 52.2 78.4

119 53.8 44.8 67.2

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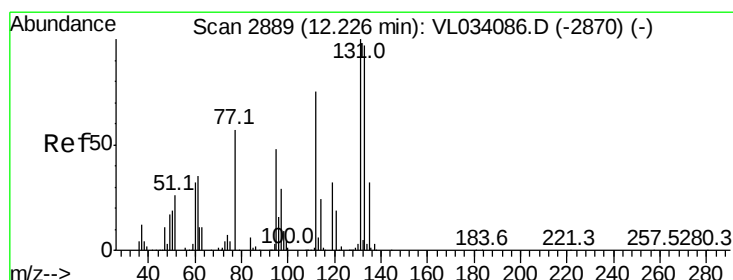
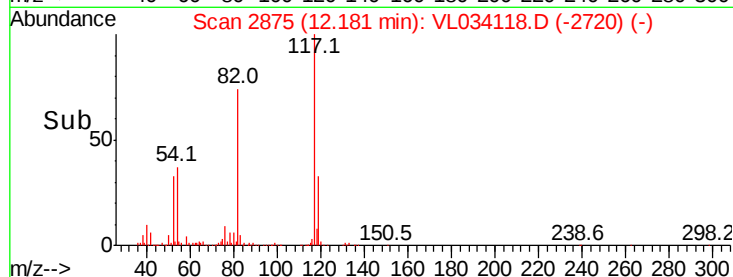
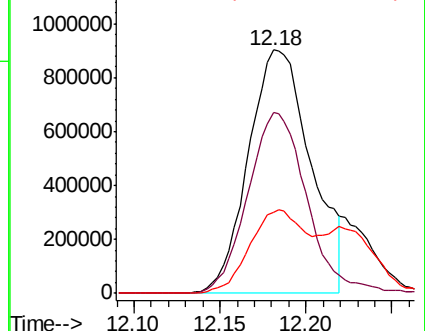
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 7.904 ppbv

RT: 12.22 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

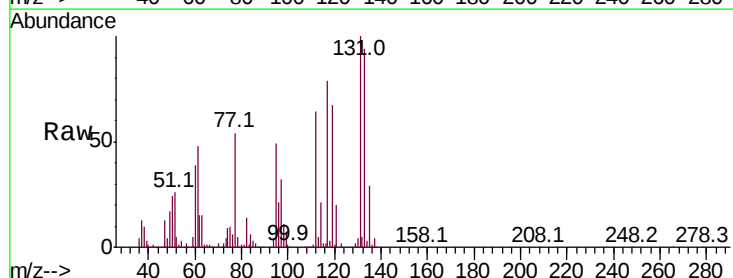
Tgt Ion:131 Resp: 830248

Ion Ratio Lower Upper

131 100

133 97.6 76.5 114.7

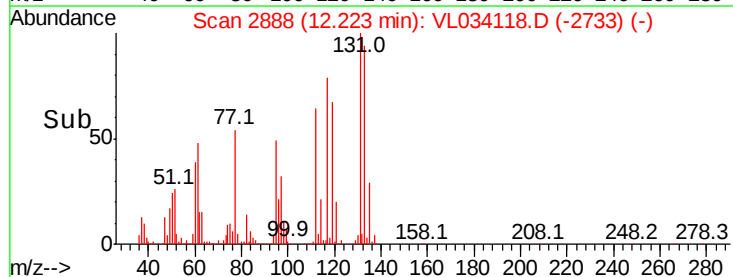
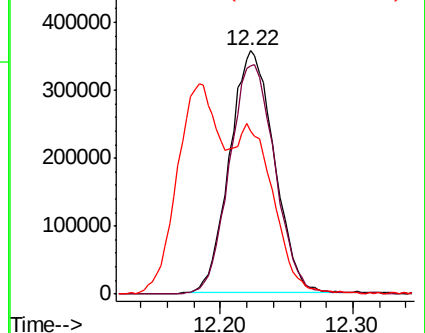
119 148.7 114.7 172.1

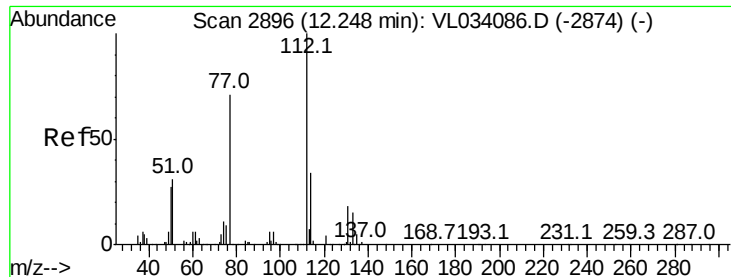


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





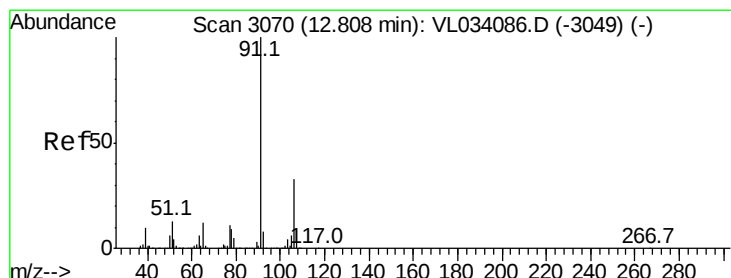
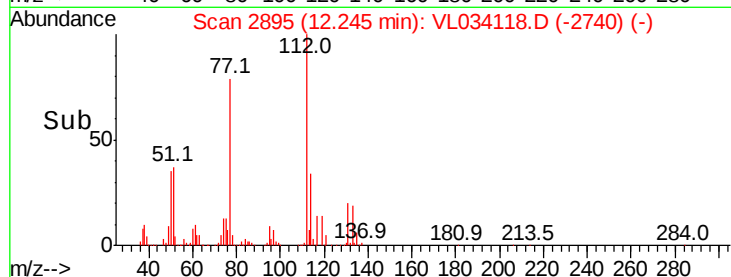
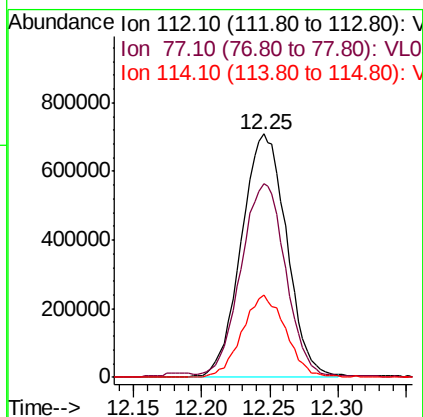
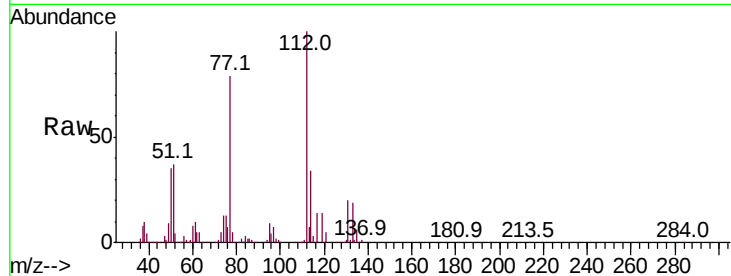
#57
Chlorobenzene
Concen: 7.884 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	78.8	57.8	86.6
114	33.6	30.3	37.1

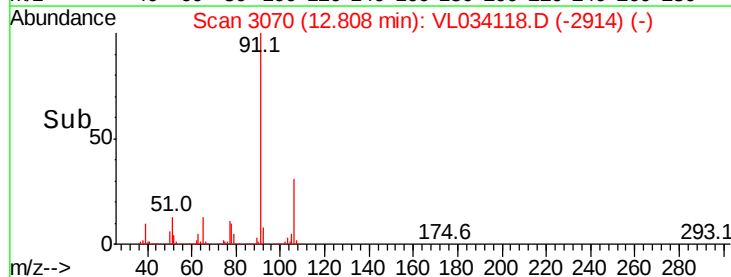
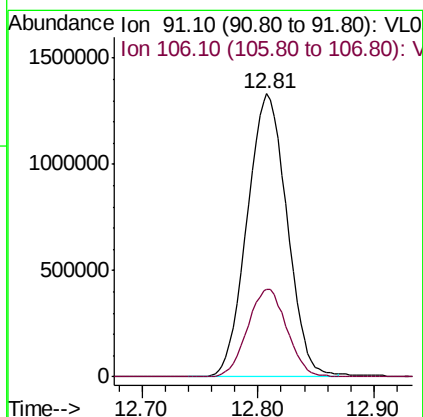
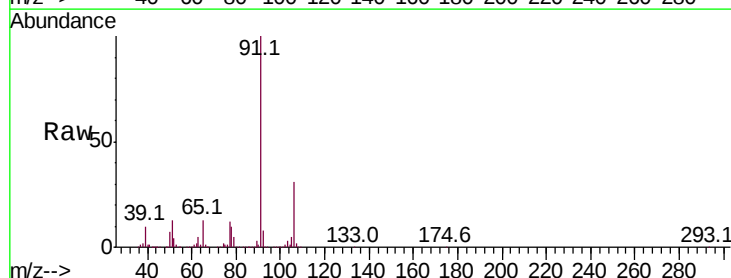
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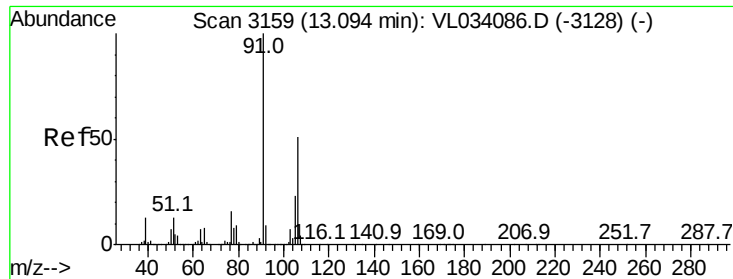
MMDadoda
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#58
Ethyl Benzene
Concen: 8.247 ppbv
RT: 12.81 min Scan# 3070
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.1	26.0	39.0





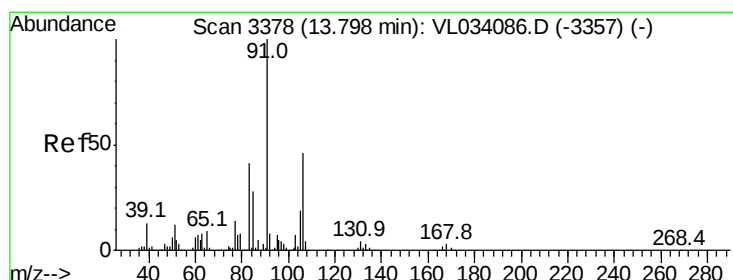
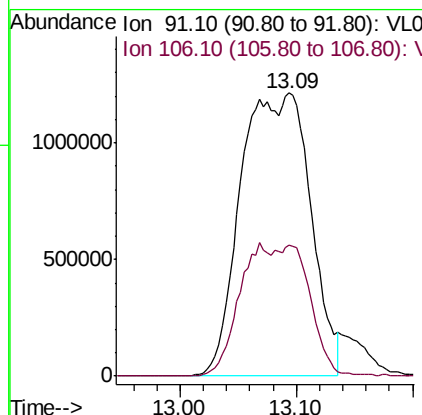
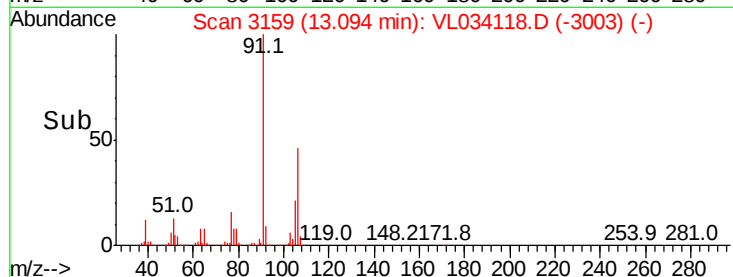
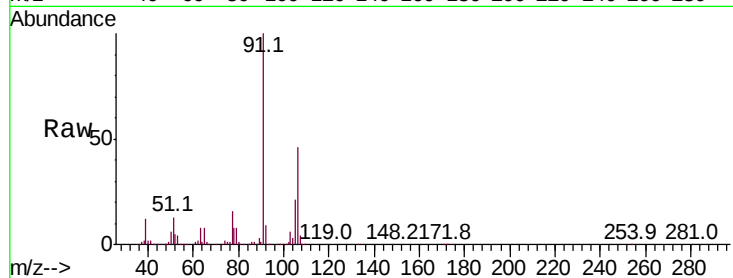
#59
m/p-Xylene
Concen: 16.261 ppbv m
RT: 13.09 min Scan# 3159
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5043118
Ion Ratio Lower Upper
91 100
106 0.0 38.7 58.1#

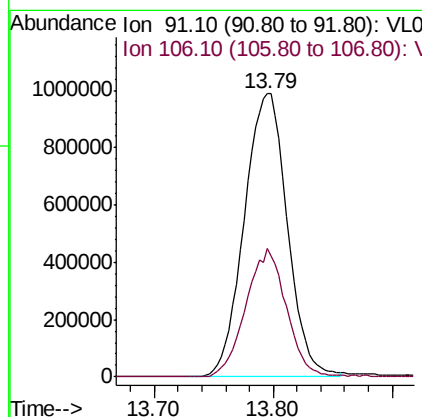
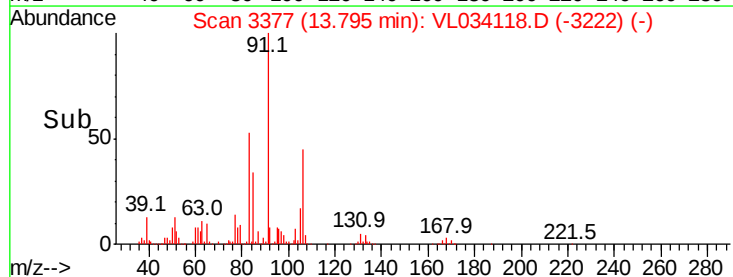
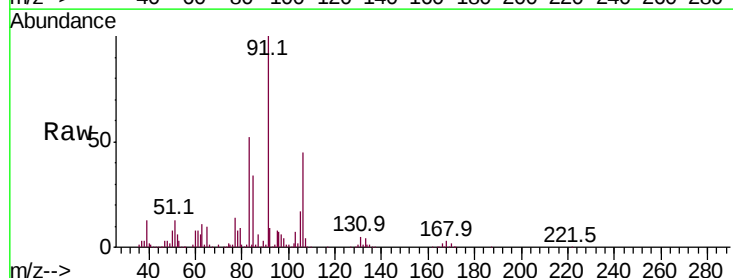
Manual Integrations
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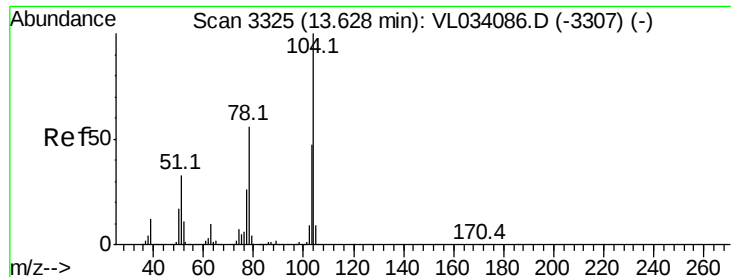
MMDadoda
8/16/2019 8:54:47 AM



#60
o-Xylene
Concen: 7.981 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt Ion: 91 Resp: 2473411
Ion Ratio Lower Upper
91 100
106 43.1 22.6 67.7





#61

Stvrene

Concen: 8.090 ppbv

RT: 13.63 min Scan# 3325

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1990182

Ion Ratio Lower Upper

104 100

78 59.0 44.2 66.4

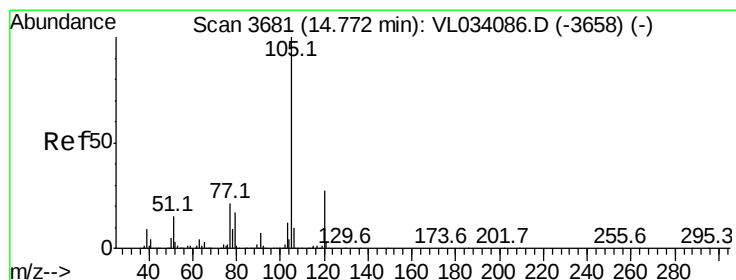
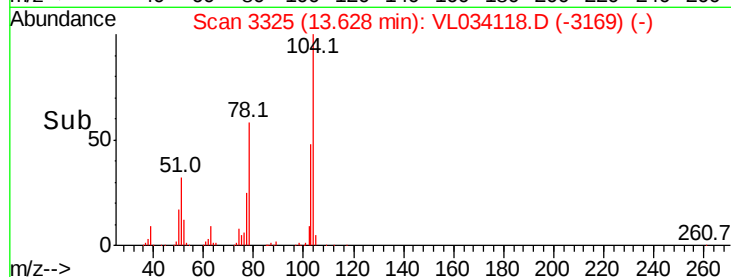
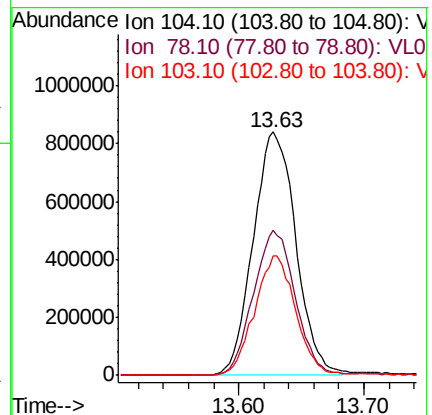
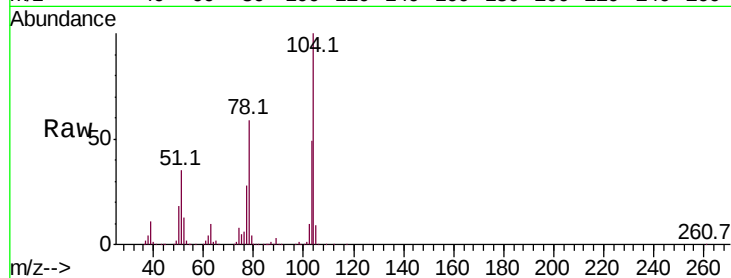
103 47.9 38.3 57.5

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#62

Isopropylbenzene

Concen: 7.803 ppbv

RT: 14.77 min Scan# 3680

Delta R.T. -0.00 min

Lab File: VL034118.D

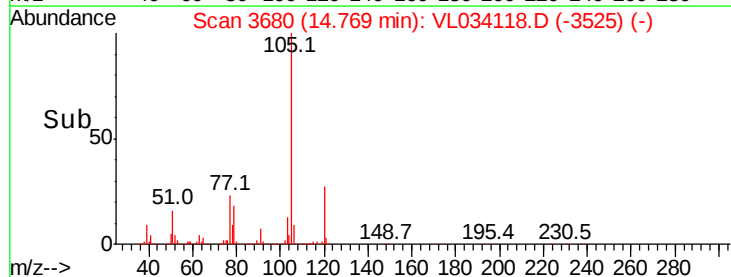
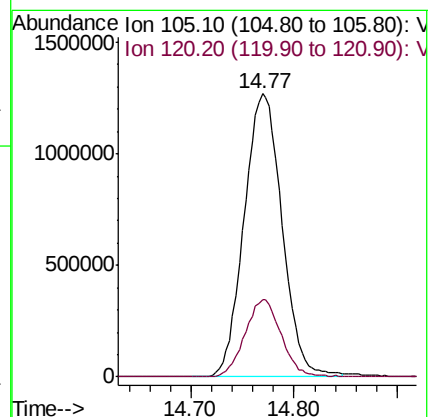
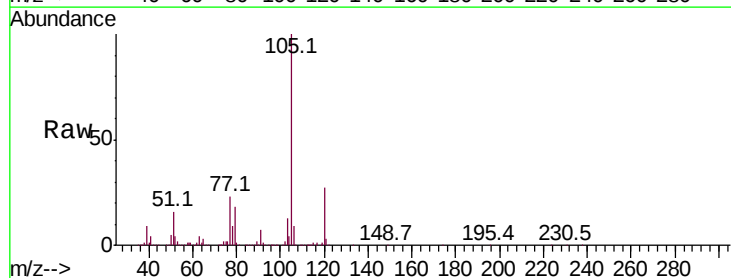
Acq: 13 Aug 2019 9:33

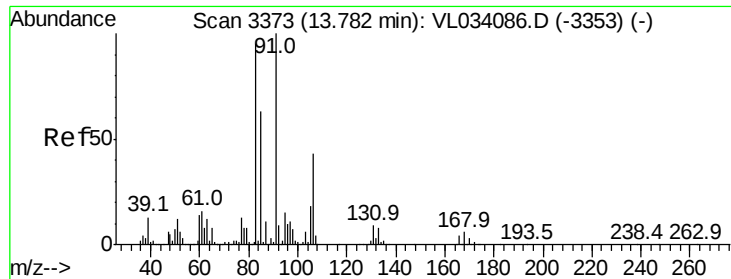
Tgt Ion:105 Resp: 3246385

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.2





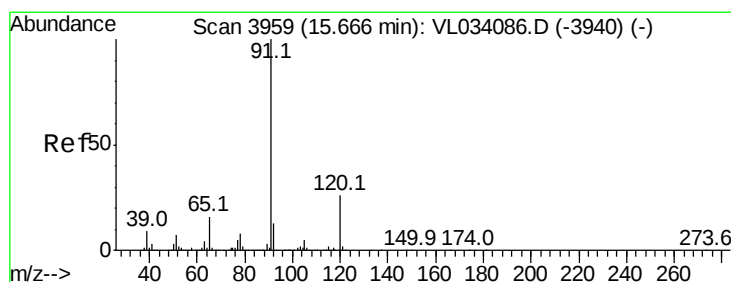
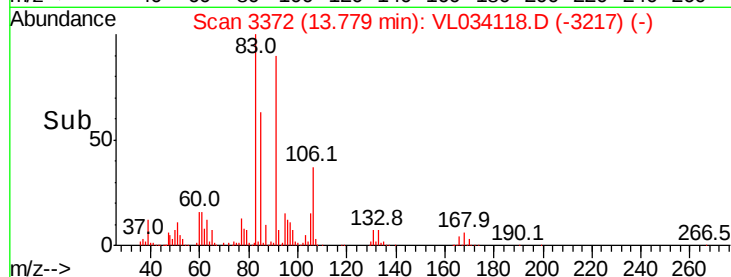
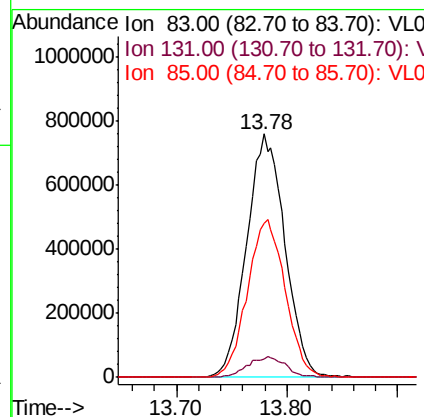
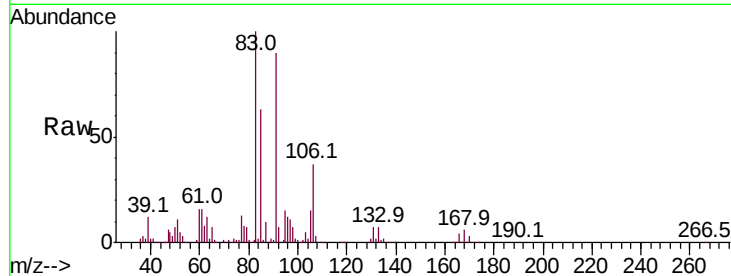
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.135 ppbv
 RT: 13.78 min Scan# 3372
 Delta R.T. -0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1821159
Ion Ratio	100	Lower	Upper
83	100		
131	8.5	4.6	13.8
85	64.6	32.6	97.8

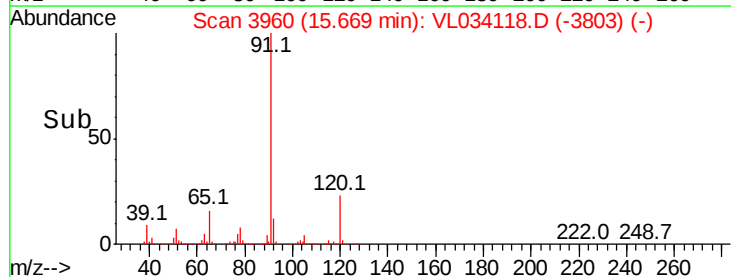
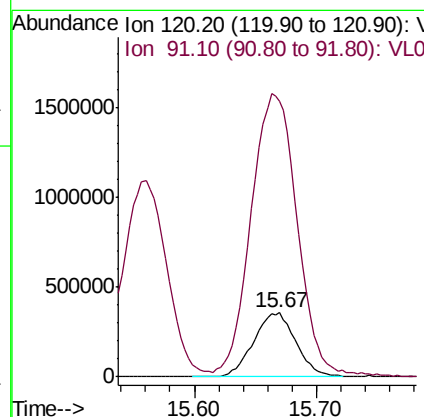
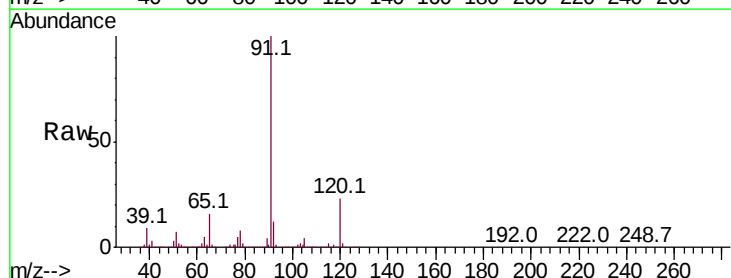
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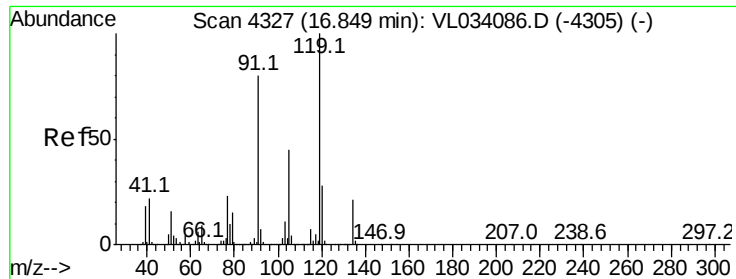
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#64
 n-propylbenzene
 Concen: 7.774 ppbv
 RT: 15.67 min Scan# 3960
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion	120	Resp	854842
Ion Ratio	100	Lower	Upper
120	100		
91	485.5	359.7	539.5





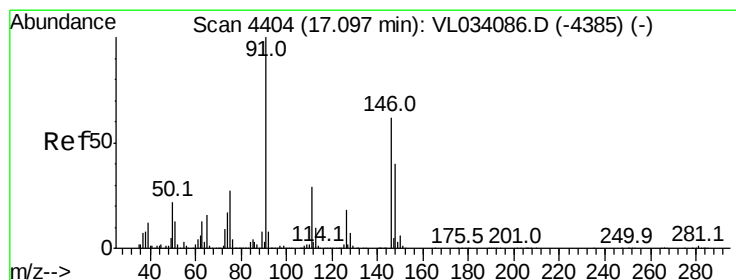
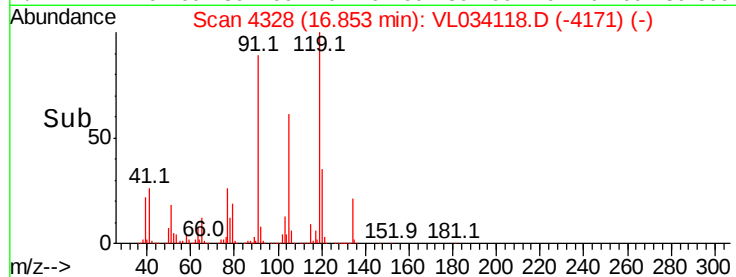
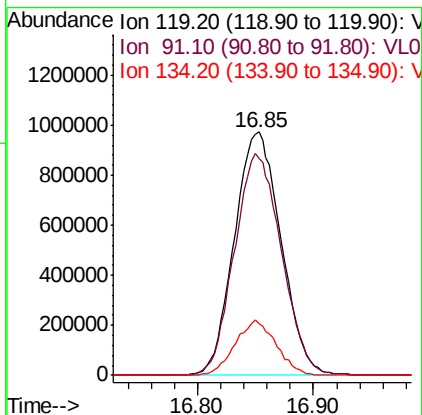
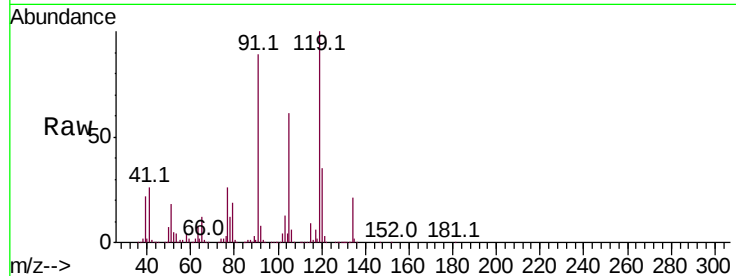
#65
 tert-Butylbenzene
 Concen: 7.326 ppbv
 RT: 16.85 min Scan# 4328
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 2714862
 Ion Ratio Lower Upper
 119 100
 91 92.0 67.6 101.4
 134 20.0 16.0 24.0

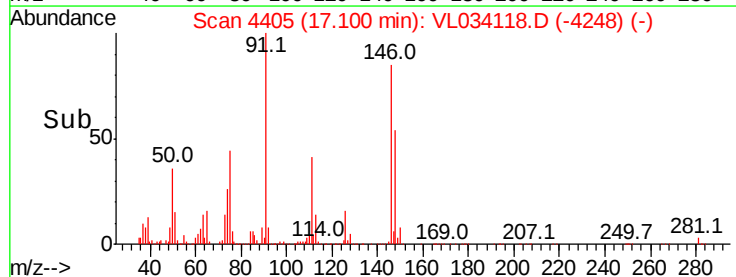
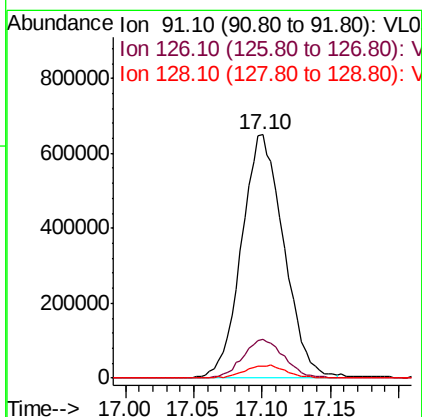
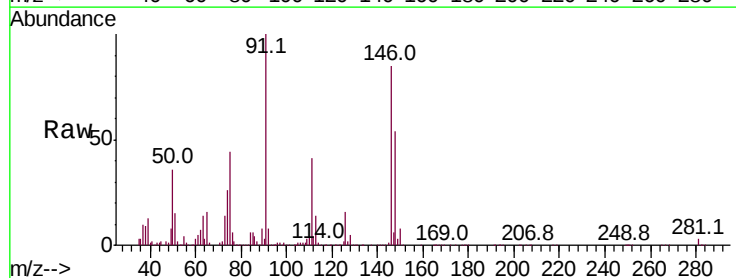
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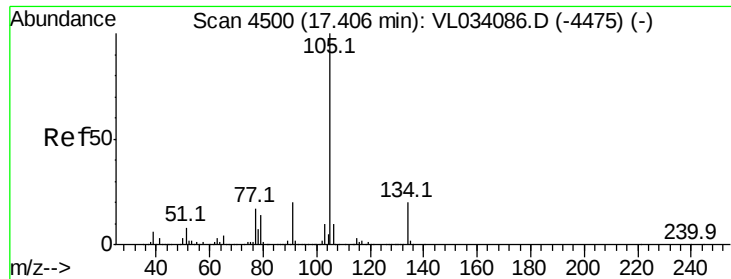
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#66
 Benzyl Chloride
 Concen: 6.773 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion: 91 Resp: 1389224
 Ion Ratio Lower Upper
 91 100
 126 15.8 14.8 22.2
 128 5.2 4.8 7.2





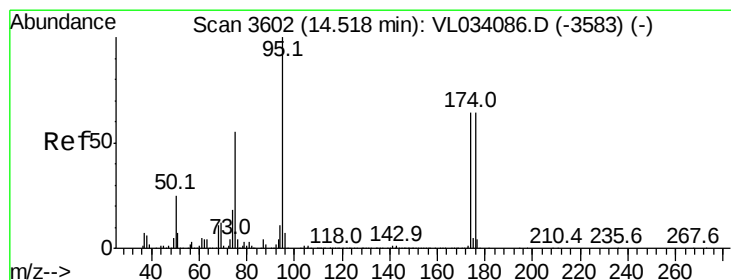
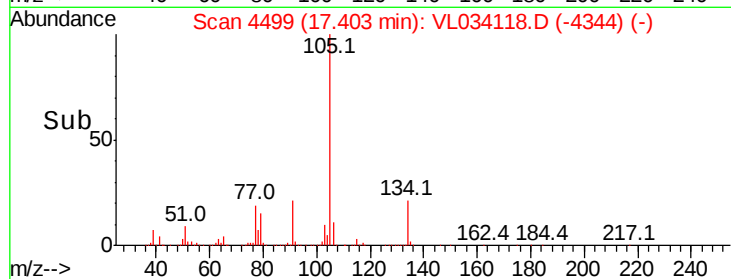
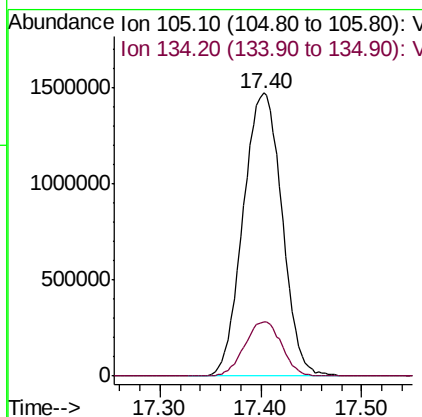
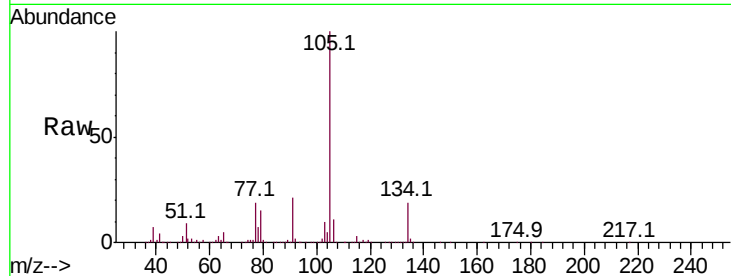
#67
 sec-Butylbenzene
 Concen: 7.534 ppbv
 RT: 17.40 min Scan# 4499
 Delta R.T. -0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 3940450
 Ion Ratio Lower Upper
 105 100
 134 18.5 15.4 23.2

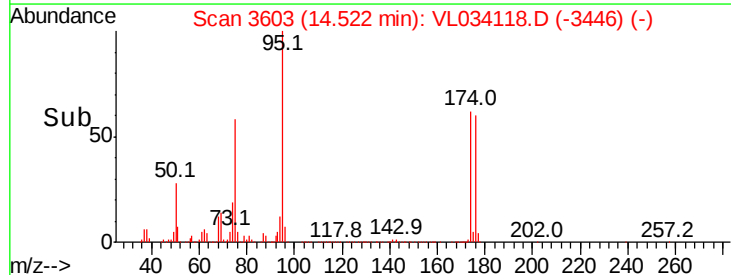
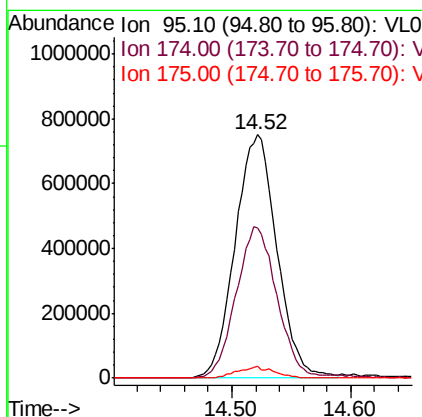
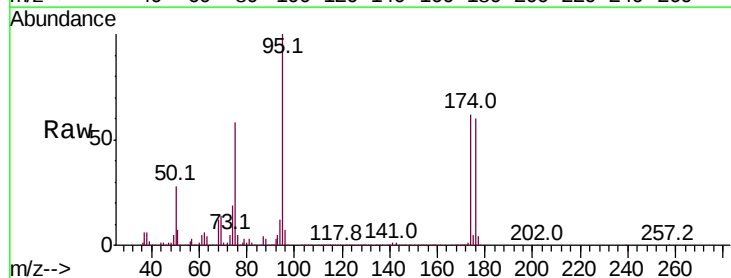
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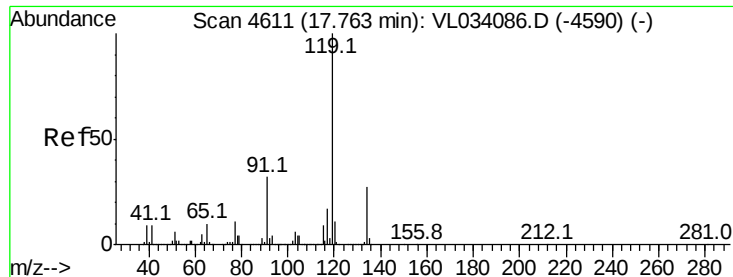
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.745 ppbv
 RT: 14.52 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion: 95 Resp: 1816782
 Ion Ratio Lower Upper
 95 100
 174 62.0 53.0 79.6
 175 4.2 4.2 6.2





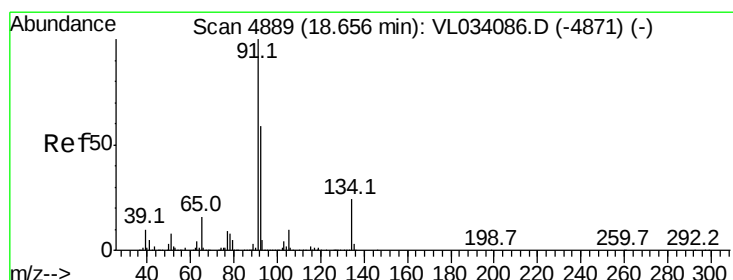
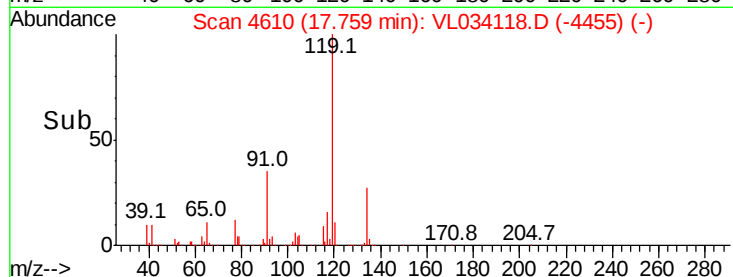
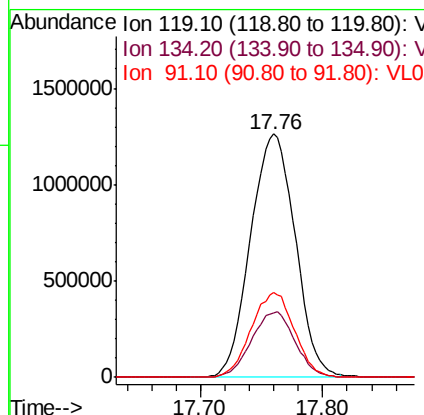
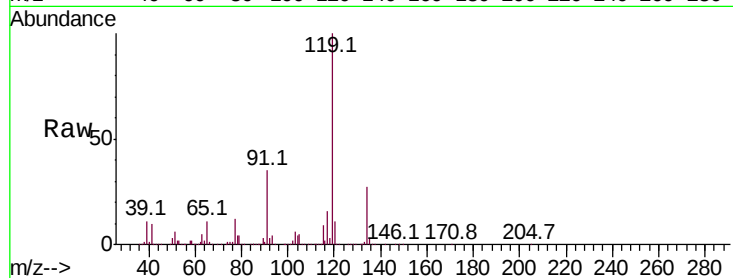
#69
 p-Isopropyltoluene
 Concen: 7.414 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.3	21.3	31.9
91	33.8	25.4	38.0

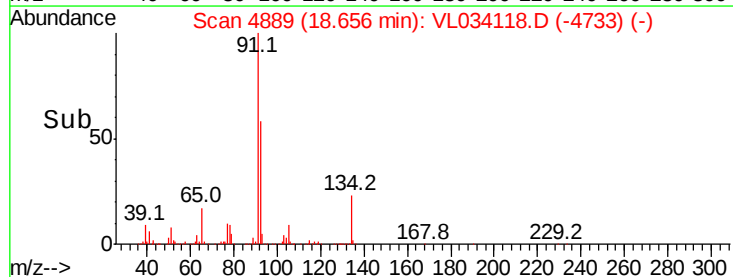
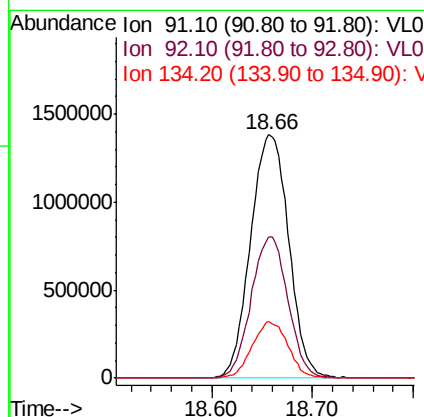
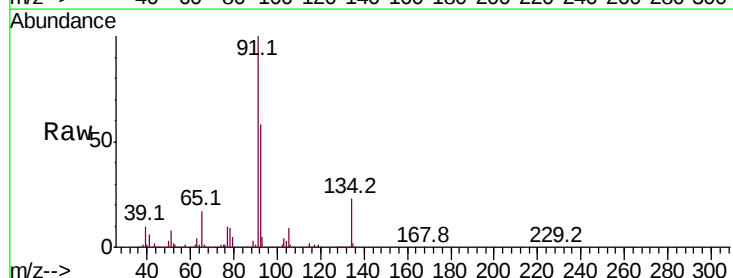
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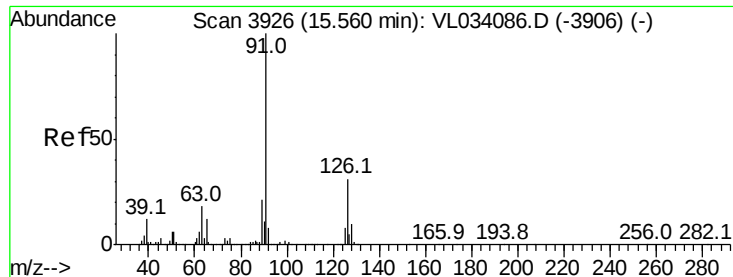
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#70
 n-Butylbenzene
 Concen: 7.788 ppbv
 RT: 18.66 min Scan# 4889
 Delta R.T. 0.00 min
 Lab File: VL034118.D
 Acq: 13 Aug 2019 9:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.0	45.9	68.9
134	21.8	19.0	28.4





#71

2-Chlorotoluene

Concen: 8.098 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2708826

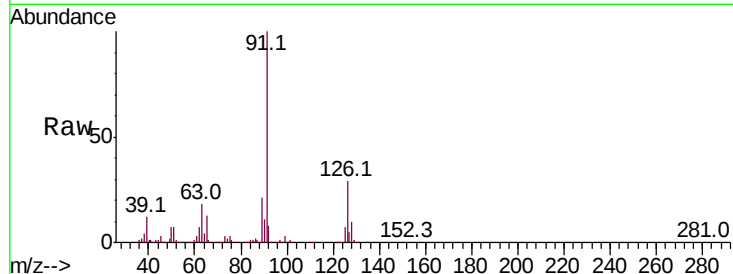
Ion Ratio Lower Upper

91 100

126 28.7 12.2 48.6

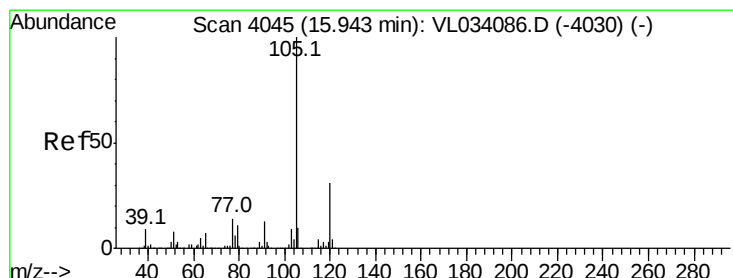
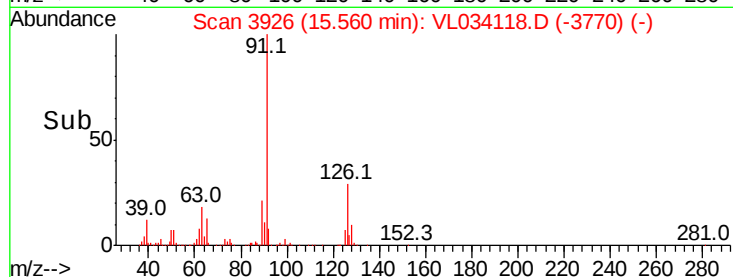
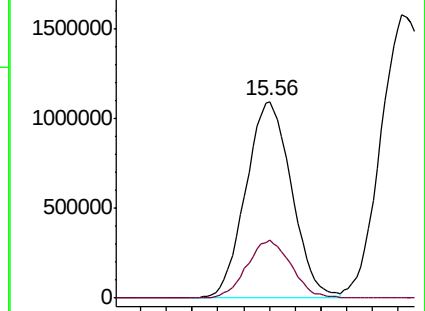
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.915 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tgt Ion:105 Resp: 2887237

Ion Ratio Lower Upper

105 100

120 29.8 24.2 36.2

91 13.8 10.5 15.7

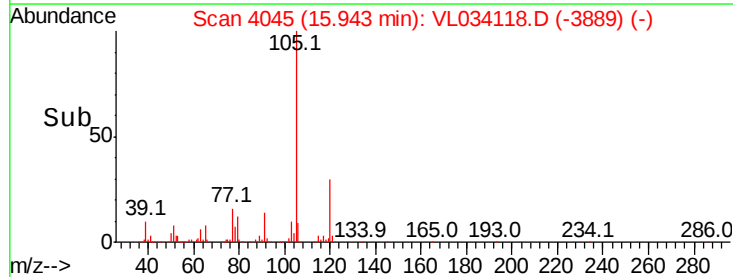
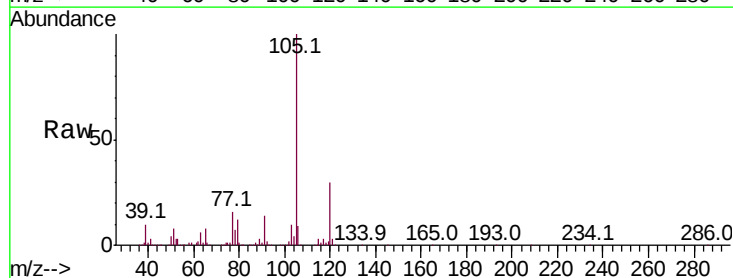
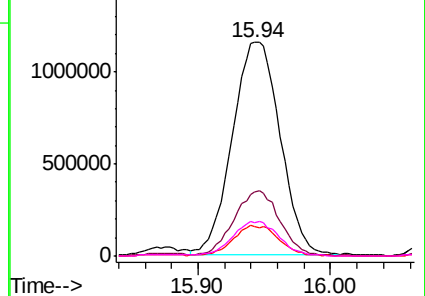
77 16.0 11.9 17.9

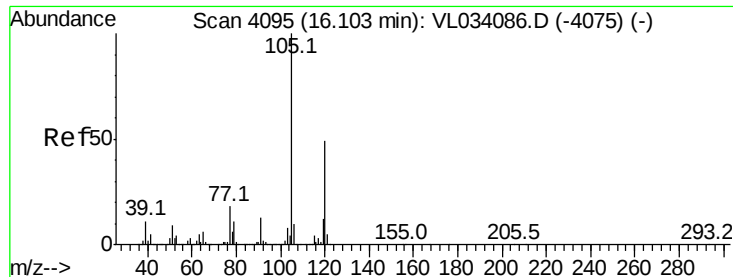
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 7.852 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2755337

Ion Ratio Lower Upper

105 100

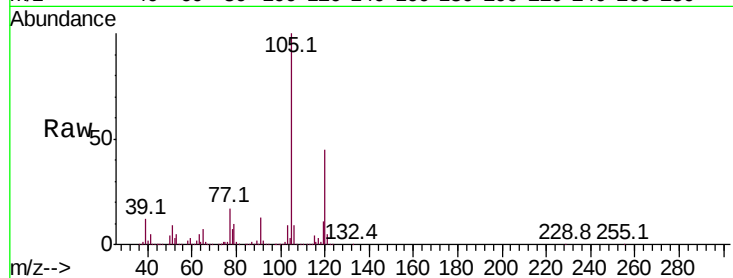
120 45.4 39.0 58.4

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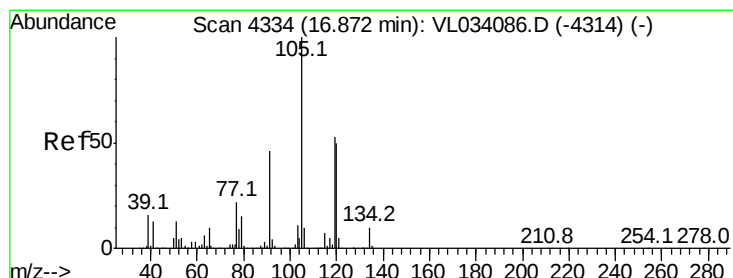
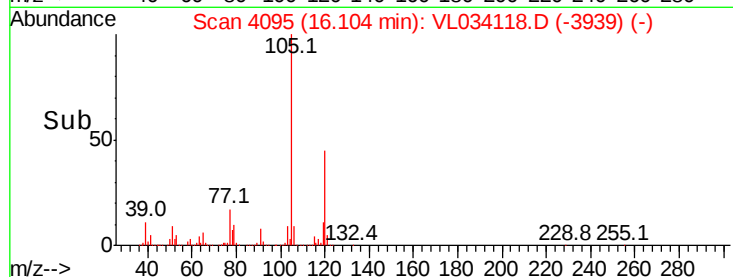
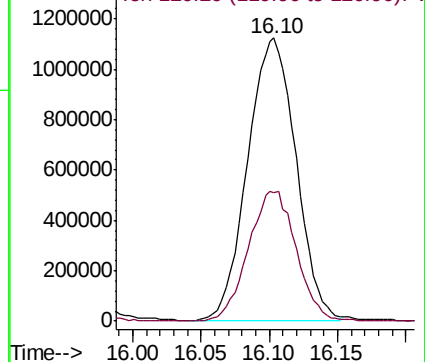
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.471 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Tgt Ion:105 Resp: 2727257

Ion Ratio Lower Upper

105 100

120 45.2 40.2 60.4

91 45.5 38.1 57.1

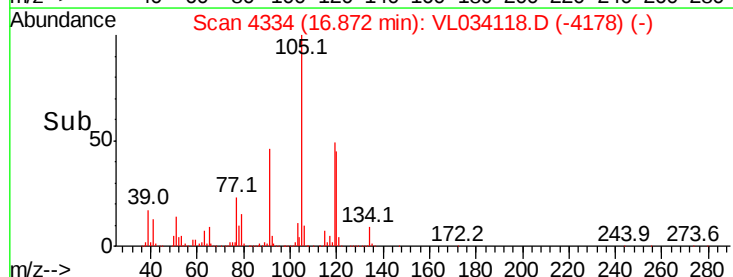
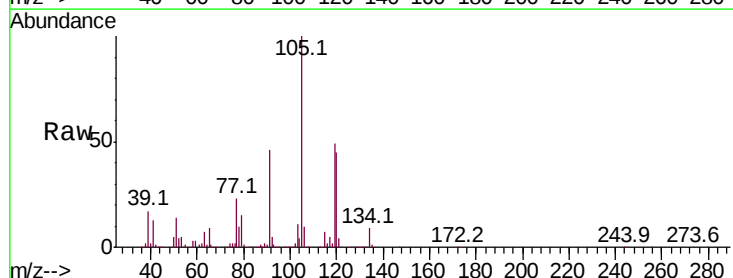
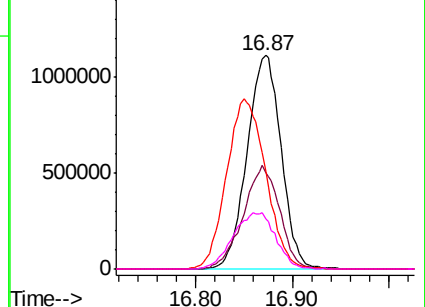
77 23.4 17.8 26.8

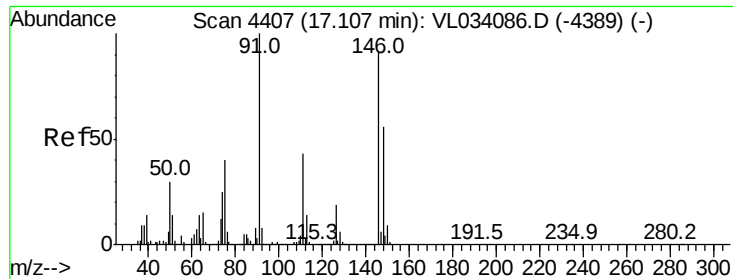
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.520 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1537583

Ion Ratio Lower Upper

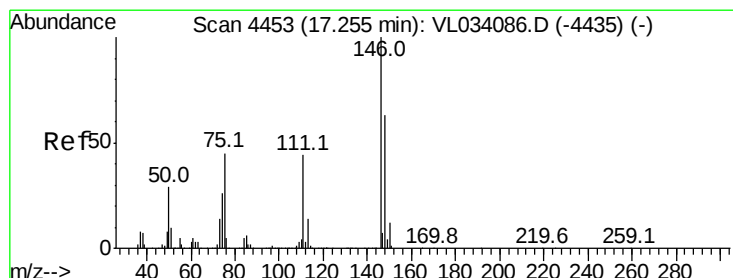
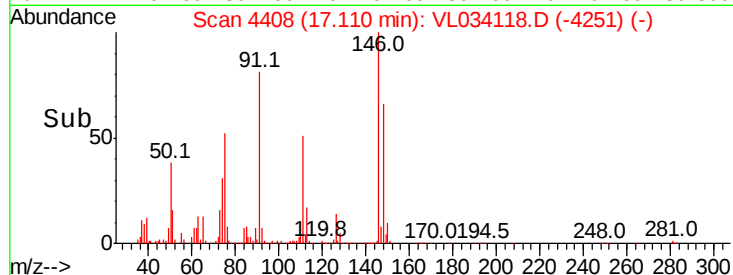
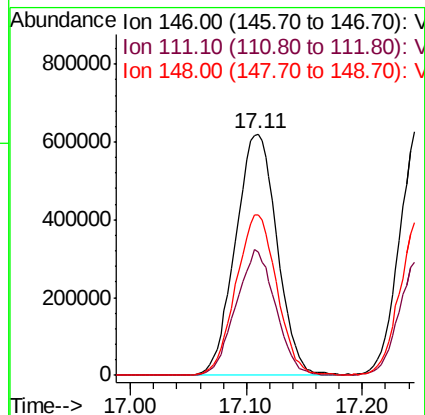
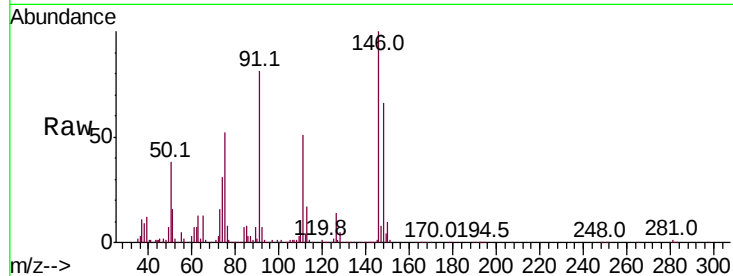
146 100

111 49.7 23.8 71.5

148 65.6 32.4 97.2

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#76

1,4-Dichlorobenzene

Concen: 7.654 ppbv

RT: 17.25 min Scan# 4451

Delta R.T. -0.01 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

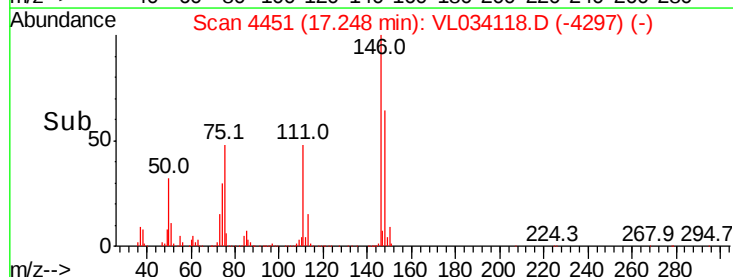
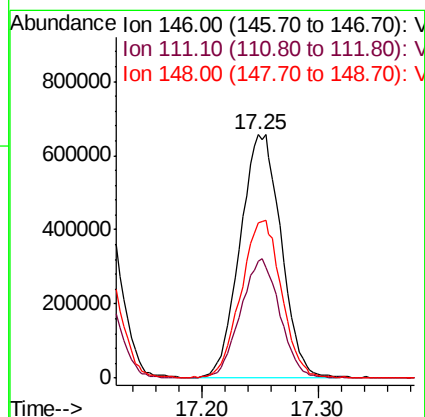
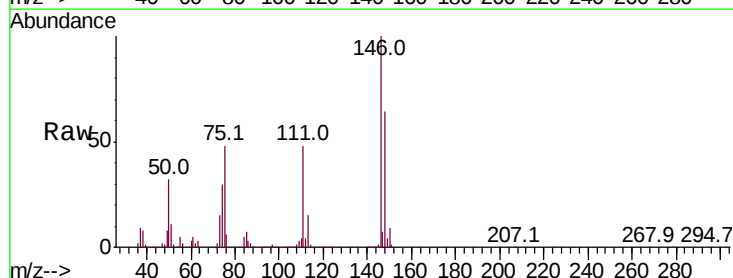
Tgt Ion:146 Resp: 1599078

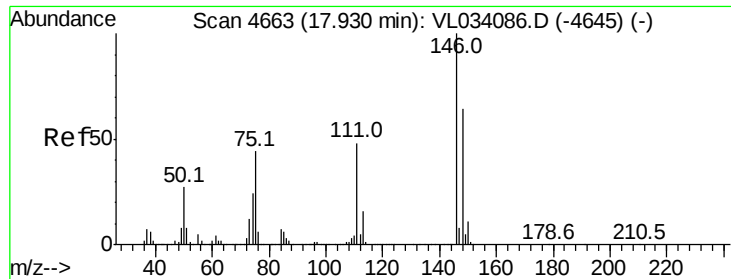
Ion Ratio Lower Upper

146 100

111 47.3 23.2 69.5

148 65.0 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 7.643 ppbv

RT: 17.93 min Scan# 4664

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1540552

Ion Ratio Lower Upper

146 100

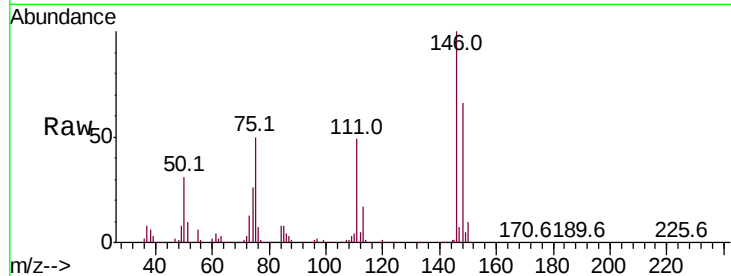
111 50.4 24.0 72.0

148 64.7 31.9 95.7

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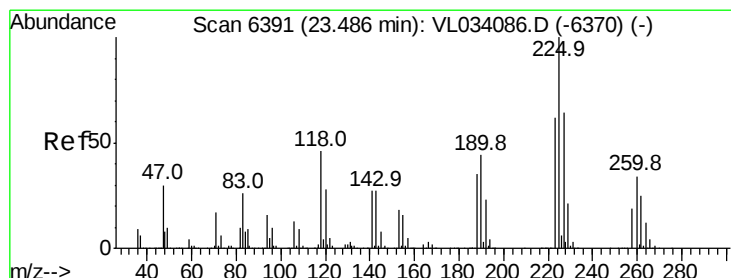
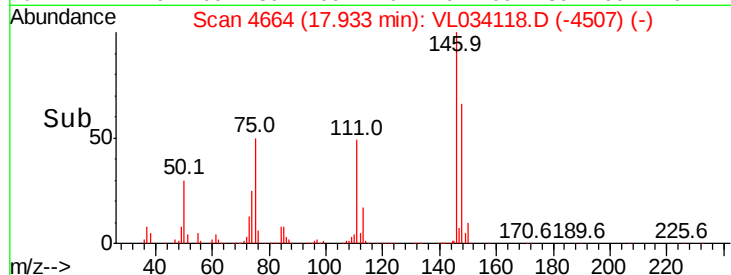
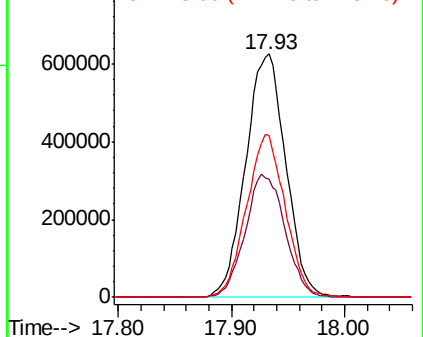


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.716 ppbv

RT: 23.49 min Scan# 6391

Delta R.T. 0.00 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

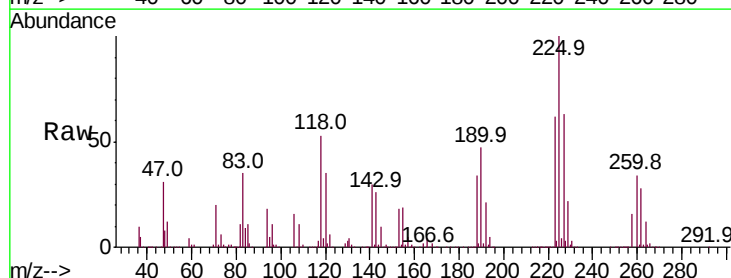
Tgt Ion:225 Resp: 1232961

Ion Ratio Lower Upper

225 100

223 64.4 50.8 76.2

227 64.1 52.2 78.2

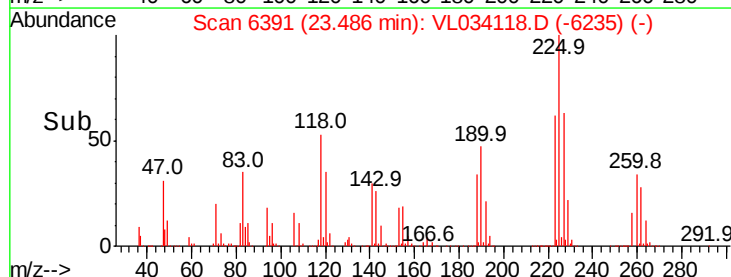
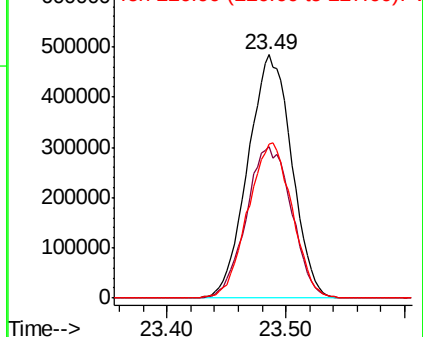


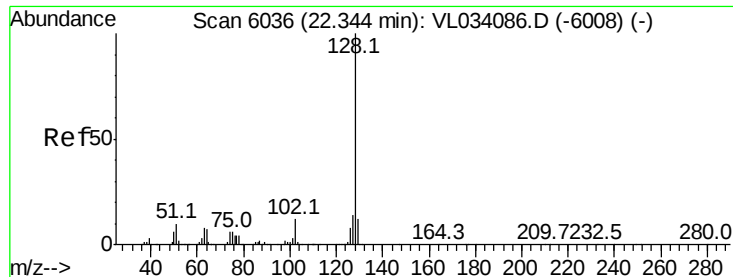
Abundance

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





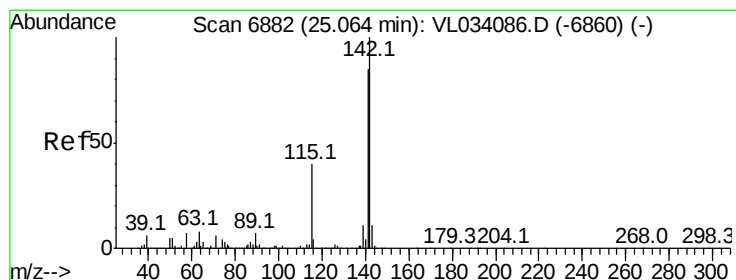
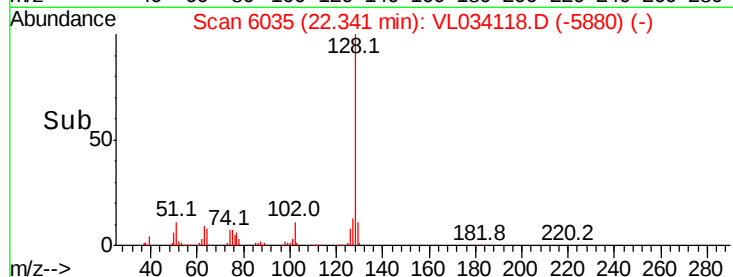
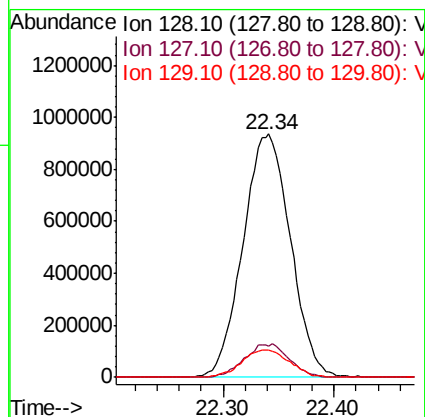
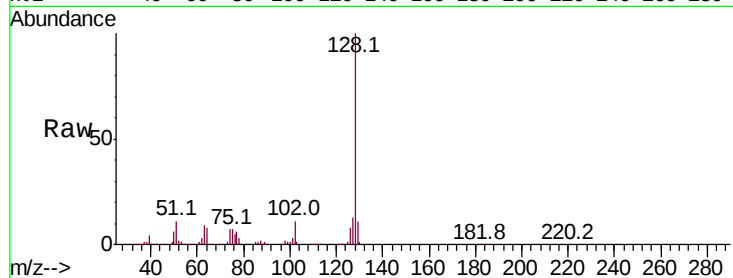
#79
Naphthalene
Concen: 7.343 ppbv
RT: 22.34 min Scan# 6035
Delta R.T. -0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:128	Resp: 2783893
Ion Ratio	Lower Upper
128 100	
127 13.0	11.0 16.6
129 11.3	9.2 13.8

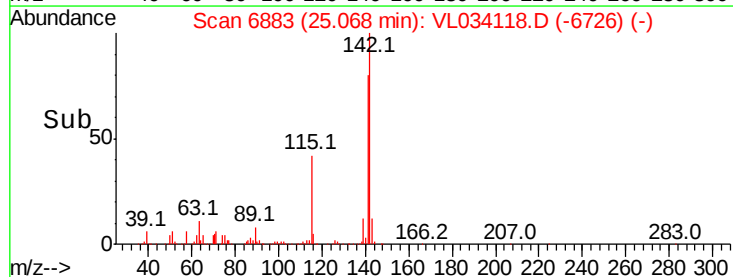
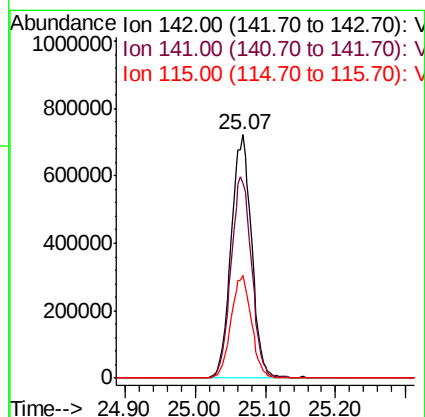
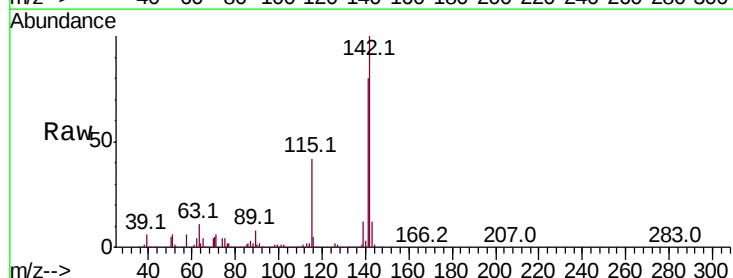
Manual Integrations
APPROVED

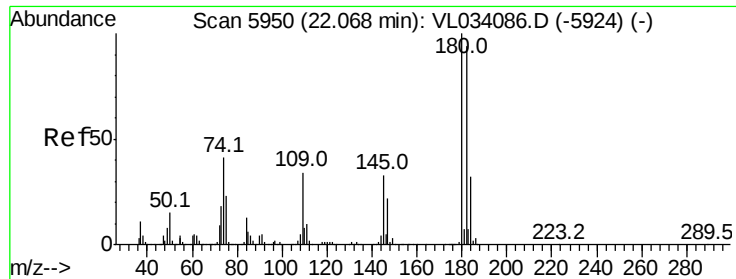
MMDadoda
8/16/2019 8:54:47 AM



#80
Naphthalene, 2-methyl-
Concen: 12.355 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034118.D
Acq: 13 Aug 2019 9:33

Tgt	Ion:142	Resp: 1468945	
Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.1	99.1
115	42.3	30.8	46.2





#81

1,2,4-Trichlorobenzene

Concen: 7.072 ppbv m

RT: 22.06 min Scan# 5948

Delta R.T. -0.01 min

Lab File: VL034118.D

Acq: 13 Aug 2019 9:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:180 Resp: 1488411

Ion Ratio Lower Upper

180 100

182 0.0 76.7 115.1#

184 0.0 25.0 37.4#

Manual Integrations

APPROVED

MMDadoda

8/16/2019 8:54:47 AM

