

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034100.D
 Acq On : 12 Aug 2019 10:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:12 AM

Quant Time: Aug 13 04:43:03 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	5.71	49	1151527	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2313674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2530262m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.52	95	2031584	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1223198	8.631	ppbv	100
3) Chlorodifluoromethane	2.99	51	1196704	8.987	ppbv	98
4) Chloromethane	3.14	50	784124	9.134	ppbv	95
5) Vinyl Chloride	3.26	62	711354	9.405	ppbv	100
6) Bromomethane	3.48	94	371788	9.512	ppbv	96
7) Chloroethane	3.56	64	260649	9.198	ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	1442882	8.826	ppbv	94
9) Propene	3.01	41	707746	9.016	ppbv	99
10) Heptane	8.19	43	1802169	8.875	ppbv	98
11) Trichlorofluoromethane	3.97	101	1501055	8.933	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.51	101	1040851	8.779	ppbv	95
13) Ethanol	3.62	45	135824	6.139	ppbv	98
14) Bromoethene	3.75	108	480750	9.080	ppbv	99
15) Acetone	3.86	43	1308808	7.954	ppbv	99
16) 1,3-Butadiene	3.33	39	713887	8.921	ppbv	98
17) tert-Butyl alcohol	4.32	59	1355171	8.825	ppbv	100
18) 1,1-Dichloroethene	4.31	96	490465	8.747	ppbv	96
19) Isopropyl Alcohol	3.99	45	1093872	8.538	ppbv	99
20) Methylene Chloride	4.37	84	435473	8.825	ppbv	97
21) Allyl Chloride	4.44	41	993252	8.721	ppbv	99
22) trans-1,2-Dichloroethene	4.92	96	498407	9.147	ppbv	96
23) Vinyl Acetate	5.11	43	2361584	8.656	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1469140	9.050	ppbv	100
25) Ethyl Acetate	5.72	43	2773898	8.570	ppbv	99
26) Hexane	5.73	57	1200549	8.751	ppbv	98
27) Carbon Disulfide	4.58	76	1330935	9.202	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	2027638	8.838	ppbv	99
29) Chloroform	5.80	83	1741439	9.338	ppbv	99
30) Cyclohexane	7.19	84	997593	9.205	ppbv	97
31) cis-1,2-Dichloroethene	5.60	61	1260932	9.305	ppbv	96
32) 1,1,1-Trichloroethane	6.57	97	1683266	9.120	ppbv	99
34) 2-Butanone	5.28	43	1973917	9.177	ppbv	98
35) Carbon Tetrachloride	7.08	117	1608763	9.059	ppbv	98
36) Benzene	6.96	78	2415906	9.187	ppbv	99
37) 1,2-Dichloroethane	6.36	62	1388610	9.815	ppbv	99
38) Trichloroethene	7.91	130	803642	7.891	ppbv	94
39) 1,2-Dichloropropane	7.68	63	1003282	9.455	ppbv	97
40) 1,4-Dioxane	7.90	88	382093	9.544	ppbv	# 96
41) Tetrahydrofuran	6.10	42	1234322	9.328	ppbv	98
42) Bromodichloromethane	7.87	83	1907185	9.615	ppbv	97
43) Methyl Methacrylate	8.09	69	1028245	9.533	ppbv	98

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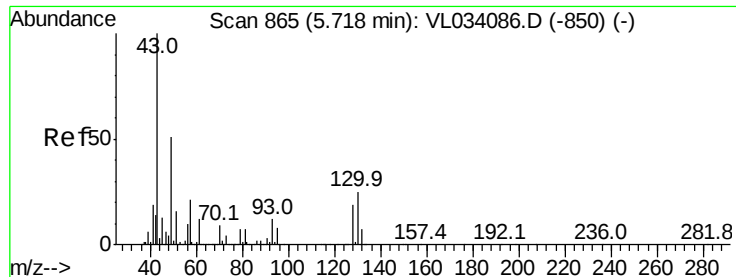
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
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 QLast Update : Mon Aug 05 17:09:48 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	4059473	8.622	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1377141	10.071	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	1549036	9.816	ppbv	95
47) 1,1,2-Trichloroethane	9.56	97	975732	9.619	ppbv	96
48) Dibromochloromethane	10.40	129	1520871	9.351	ppbv	100
49) Bromoform	13.15	173	1361529	9.362	ppbv	99
50) 4-Methyl-2-Pentanone	8.81	43	2875990	8.785	ppbv	99
51) 2-Hexanone	10.22	43	2510966	9.127	ppbv #	100
52) Tetrachloroethene	11.31	164	795854	7.837	ppbv	92
53) Toluene	9.89	91	2715544	8.948	ppbv	99
54) 1,2-Dibromoethane	10.70	107	1417106	9.221	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	1006449	8.700	ppbv #	58
57) Chlorobenzene	12.24	112	1889721	8.293	ppbv	97
58) Ethyl Benzene	12.80	91	3606714	8.477	ppbv	98
59) m/p-Xylene	13.09	91	5767055m	16.886	ppbv	
60) o-Xylene	13.79	91	2832515	8.299	ppbv	99
61) Styrene	13.63	104	2331101	8.605	ppbv	99
62) Isopropylbenzene	14.77	105	3701079	8.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	2023181	8.206	ppbv	99
64) n-propylbenzene	15.66	120	984722	8.132	ppbv	94
65) tert-Butylbenzene	16.85	119	3185105	7.805	ppbv	96
66) Benzyl Chloride	17.10	91	2051553	9.082	ppbv	98
67) sec-Butylbenzene	17.40	105	4486540	7.790	ppbv	99
69) p-Isopropyltoluene	17.76	119	3678314	7.743	ppbv	98
70) n-Butylbenzene	18.66	91	4075301	7.953	ppbv	99
71) 2-Chlorotoluene	15.56	91	3046051	8.269	ppbv	99
72) 4-Ethyltoluene	15.94	105	3324864	8.277	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3181981	8.234	ppbv	95
74) 1,2,4-Trimethylbenzene	16.87	105	3140377	7.812	ppbv	97
75) 1,3-Dichlorobenzene	17.11	146	1788389	7.943	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	1833790	7.971	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1771139	7.979	ppbv	98
78) Hexachloro-1,3-Butadiene	23.49	225	1514912	8.609	ppbv	100
79) Naphthalene	22.34	128	3212869	7.696	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	1761333	13.453	ppbv	97
81) 1,2,4-Trichlorobenzene	22.06	180	1740250	7.509	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034100.D

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Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1151527

Ion Ratio Lower Upper

49 100

128 39.1 19.5 58.5

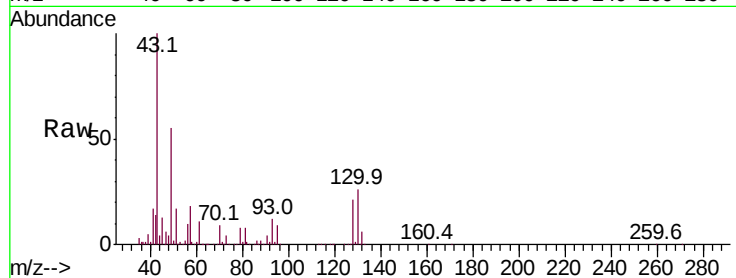
130 48.4 25.4 76.0

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

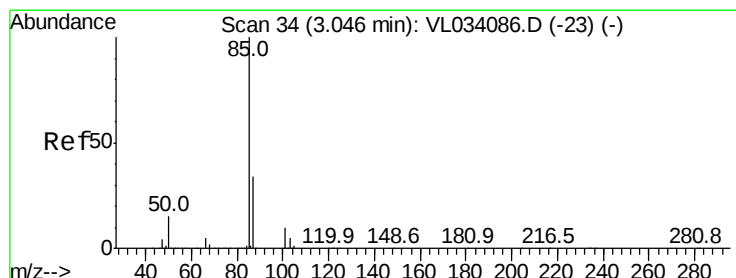
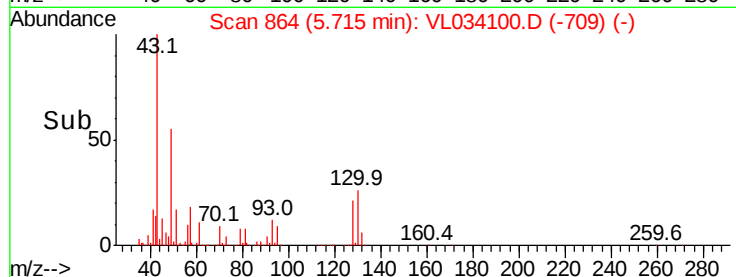
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 8.631 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL034100.D

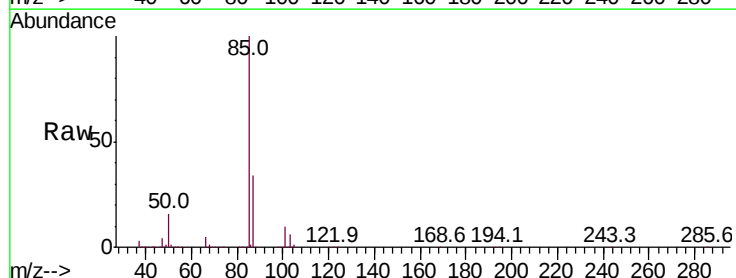
Acq: 12 Aug 2019 10:32

Tgt Ion: 85 Resp: 1223198

Ion Ratio Lower Upper

85 100

87 33.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1000000

800000

600000

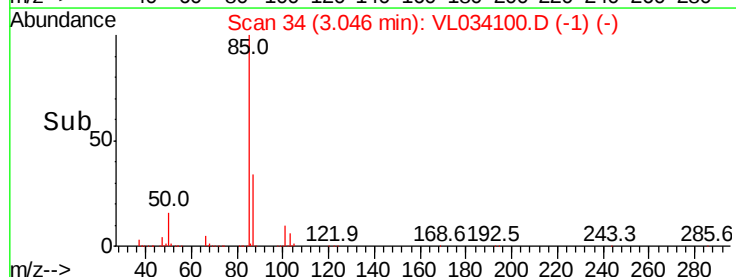
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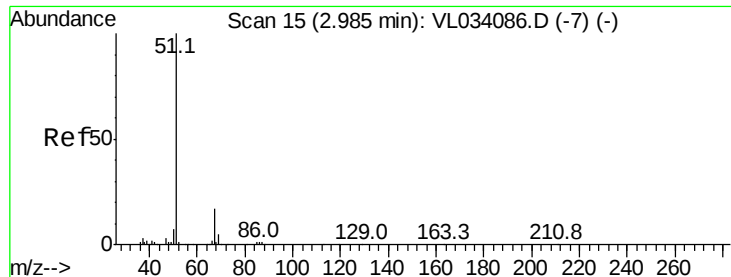
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0

3.00 3.05 3.10

Time-->





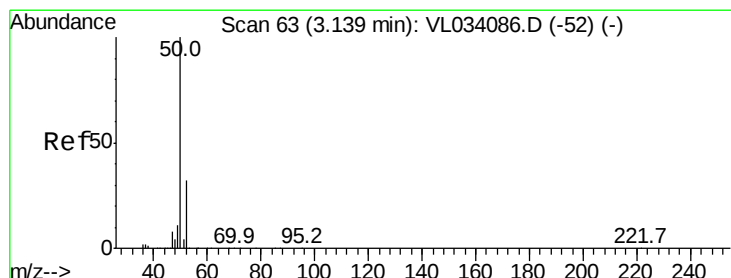
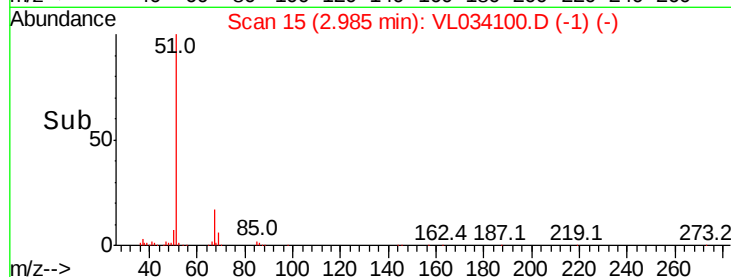
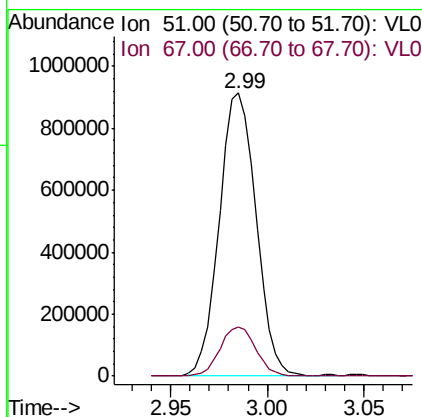
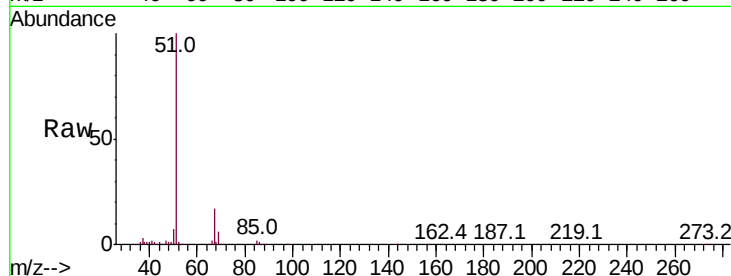
#3
 Chlorodifluoromethane
 Concen: 8.987 ppbv
 RT: 2.99 min Scan# 15
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 51 Resp: 1196704
 Ion Ratio Lower Upper
 51 100
 67 17.3 13.3 19.9

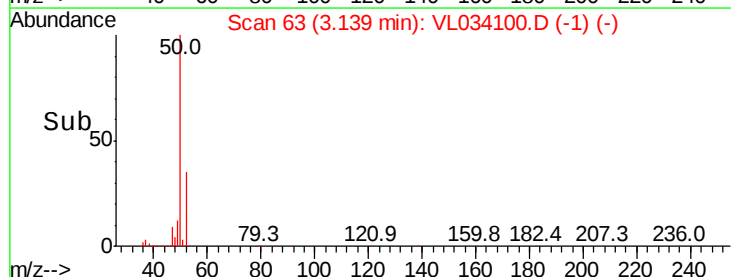
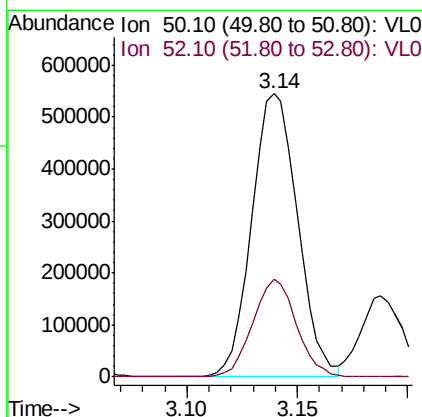
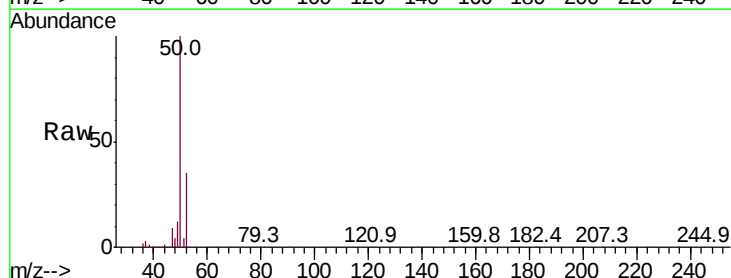
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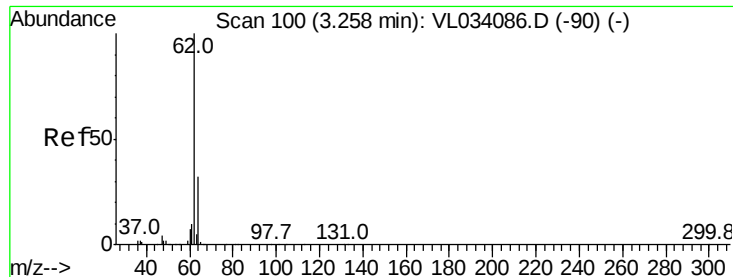
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#4
 Chloromethane
 Concen: 9.134 ppbv
 RT: 3.14 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion: 50 Resp: 784124
 Ion Ratio Lower Upper
 50 100
 52 34.7 25.7 38.5





#5

Vinyl Chloride

Concen: 9.405 ppbv

RT: 3.26 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 711354

Ion Ratio Lower Upper

62 100

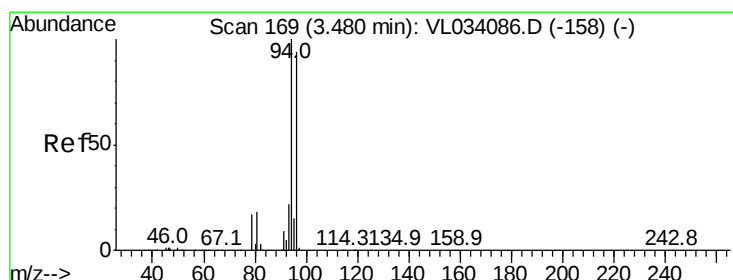
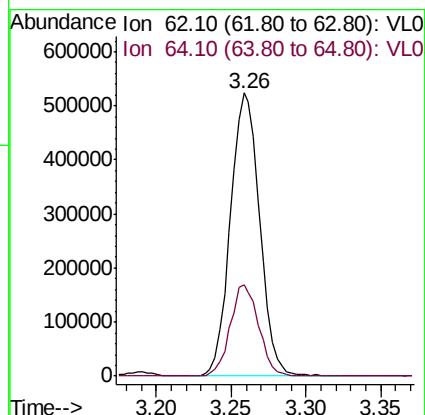
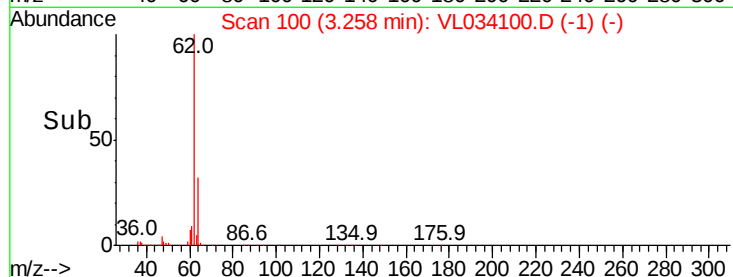
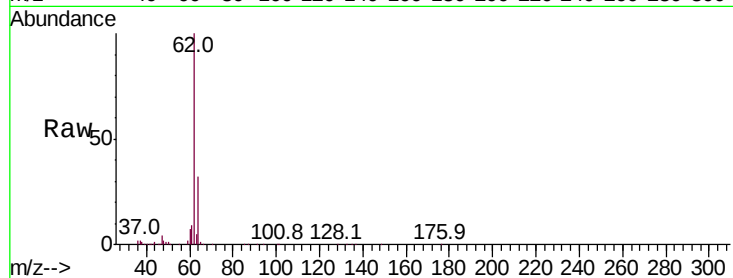
64 32.4 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 9.512 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034100.D

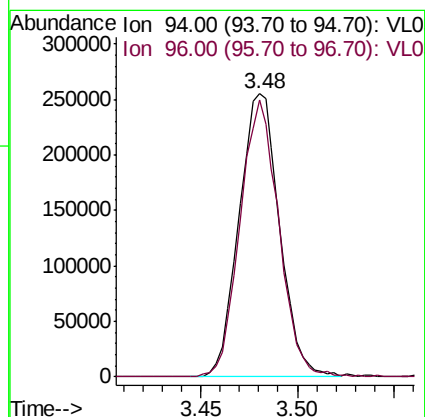
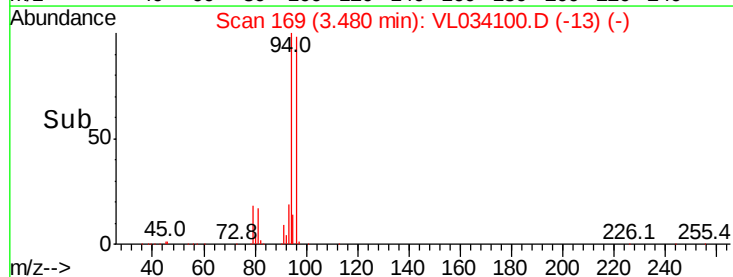
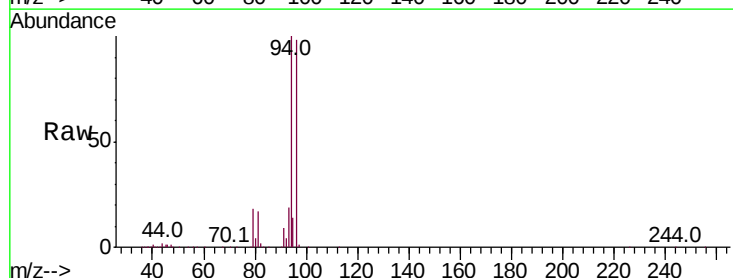
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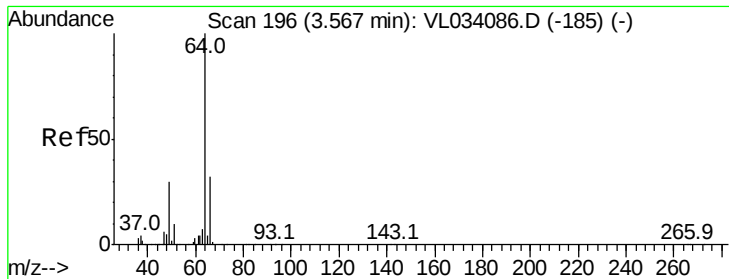
Tgt Ion: 94 Resp: 371788

Ion Ratio Lower Upper

94 100

96 97.7 75.3 112.9





#7

Chloroethane

Concen: 9.198 ppbv

RT: 3.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 260649

Ion Ratio Lower Upper

64 100

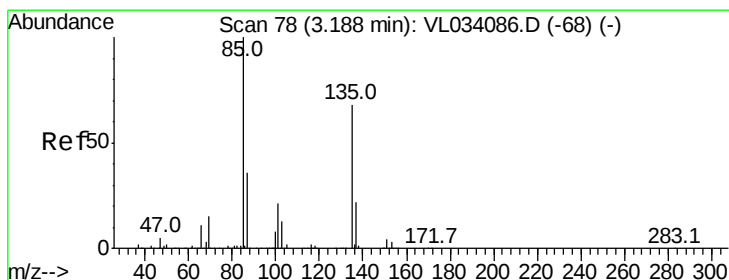
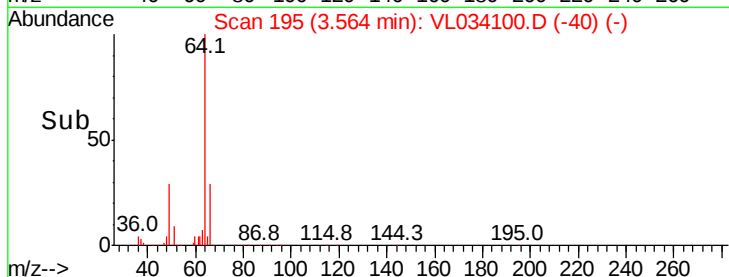
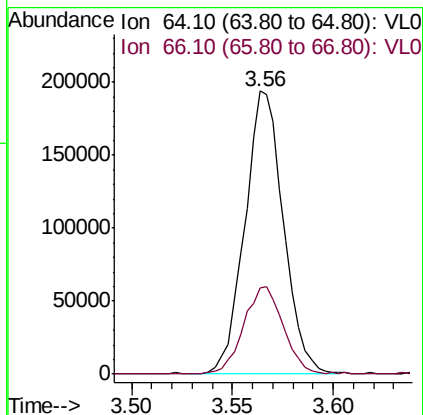
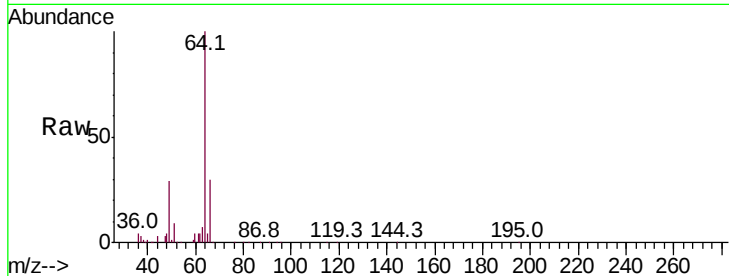
66 30.3 25.2 37.8

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#8

Dichlorotetrafluoroethane

Concen: 8.826 ppbv

RT: 3.19 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034100.D

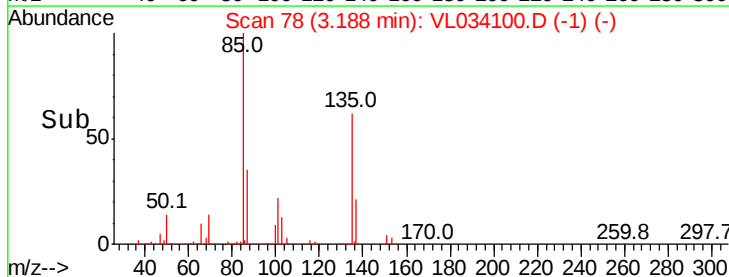
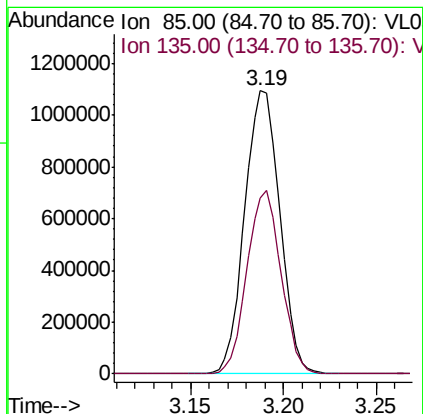
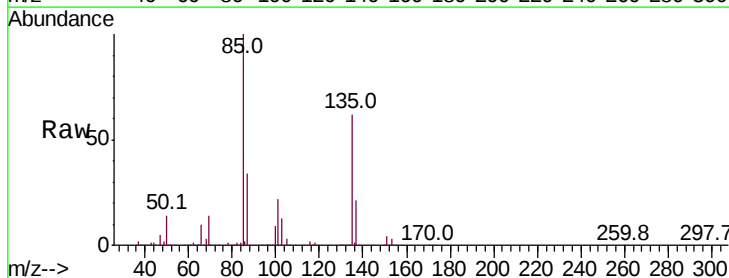
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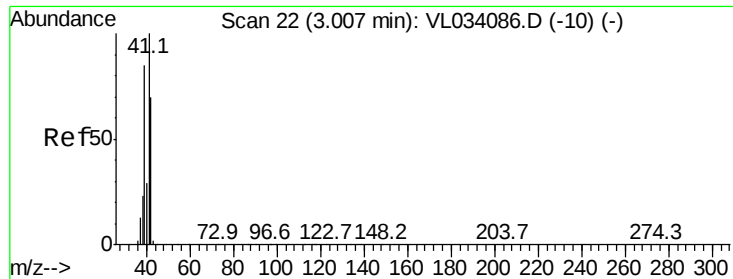
Tgt Ion: 85 Resp: 1442882

Ion Ratio Lower Upper

85 100

135 62.9 54.0 81.0





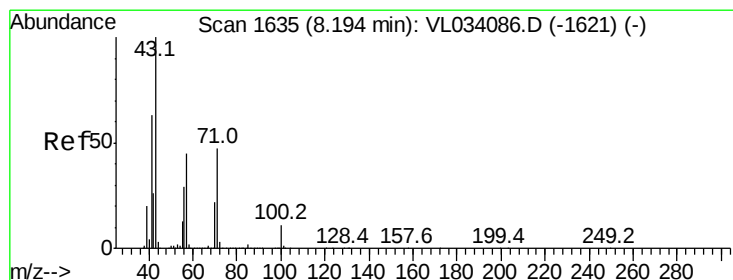
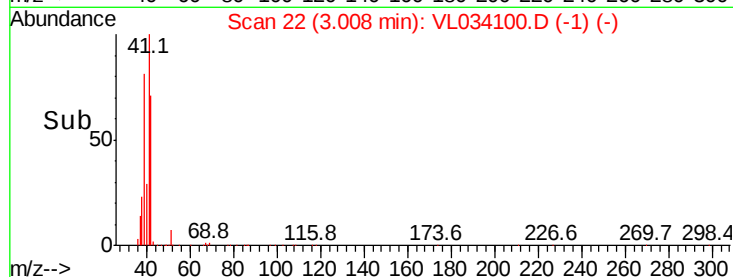
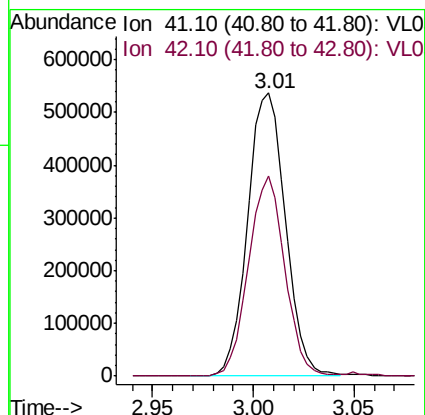
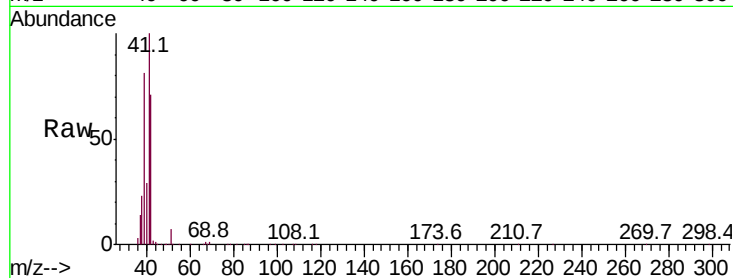
#9
 Propene
 Concen: 9.016 ppbv
 RT: 3.01 min Scan# 22
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 41 Resp: 707746
 Ion Ratio Lower Upper
 41 100
 42 68.5 55.8 83.6

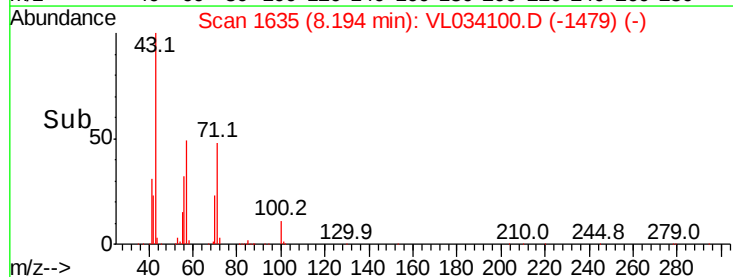
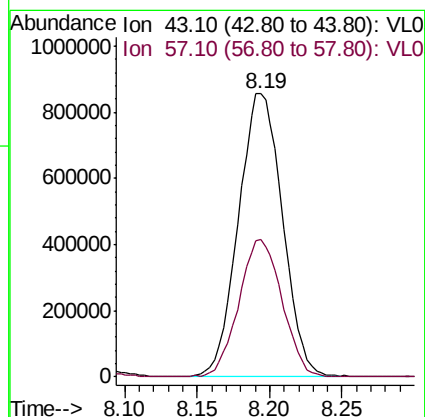
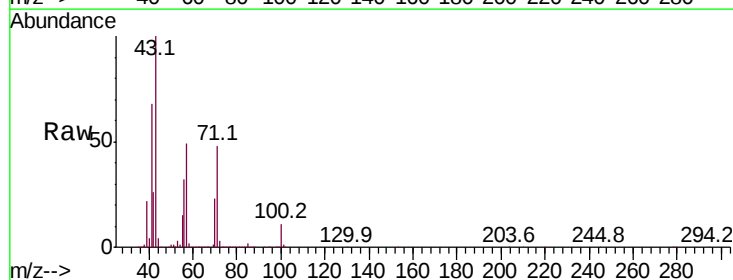
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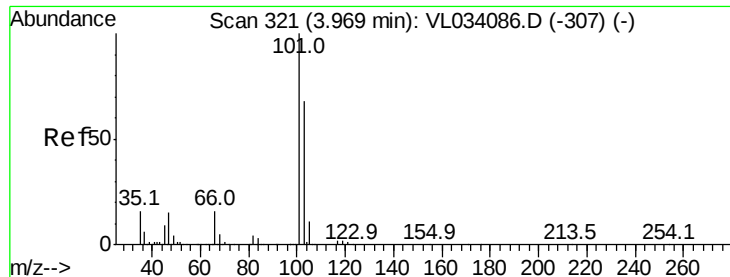
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#10
 Heptane
 Concen: 8.875 ppbv
 RT: 8.19 min Scan# 1635
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion: 43 Resp: 1802169
 Ion Ratio Lower Upper
 43 100
 57 47.9 37.2 55.8





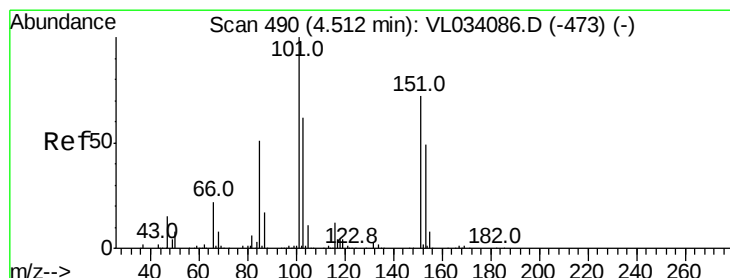
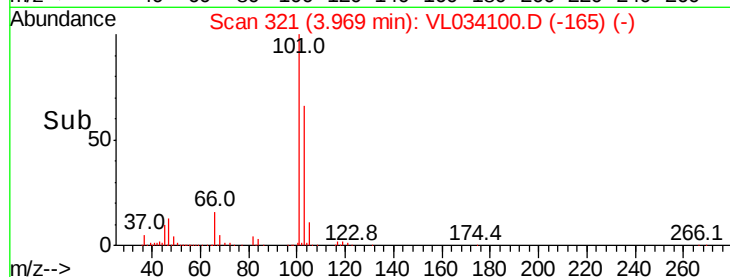
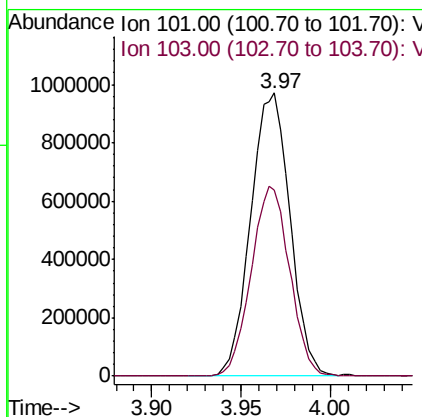
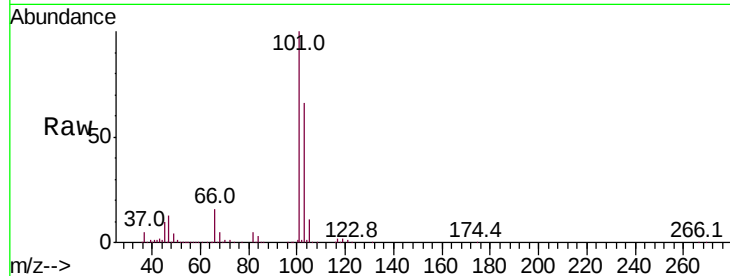
#11
 Trichlorofluoromethane
 Concen: 8.933 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1501055
 Ion Ratio Lower Upper
 101 100
 103 65.5 54.3 81.5

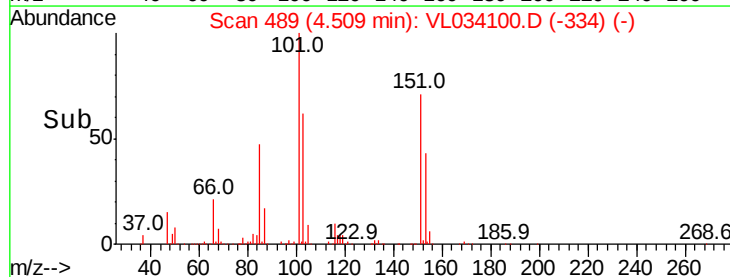
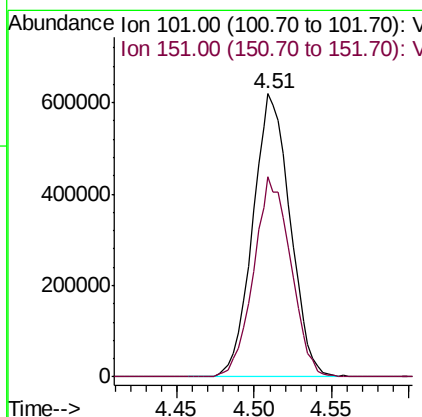
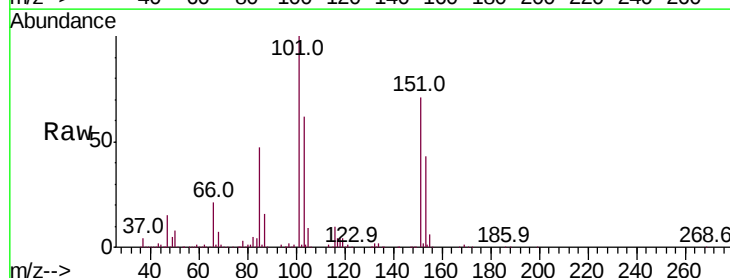
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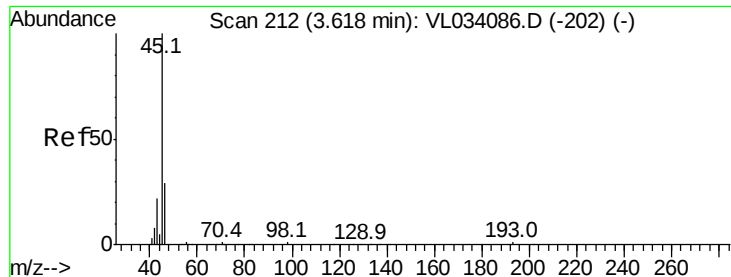
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.779 ppbv
 RT: 4.51 min Scan# 489
 Delta R.T. -0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion:101 Resp: 1040851
 Ion Ratio Lower Upper
 101 100
 151 70.4 59.4 89.0





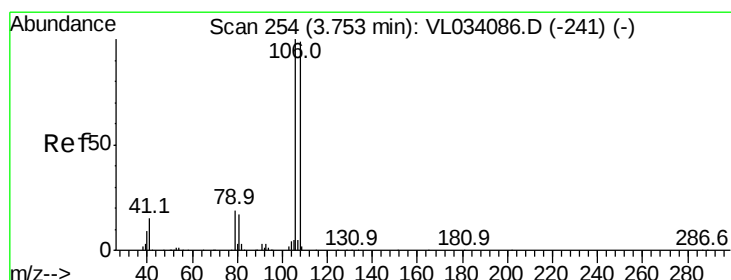
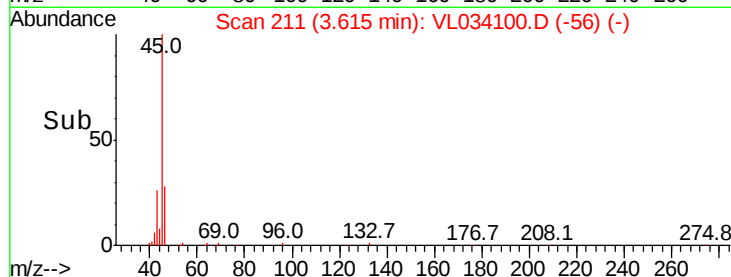
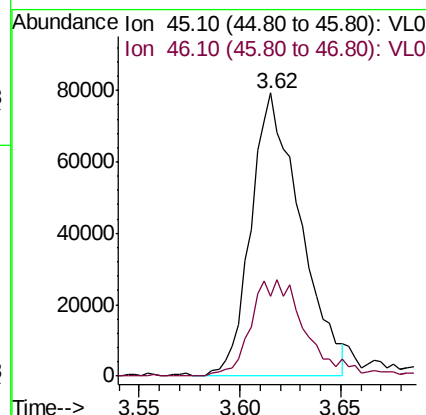
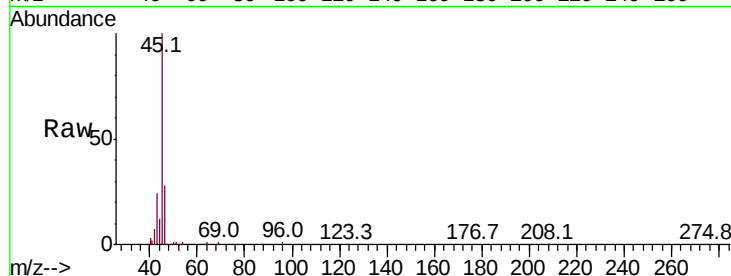
#13
Ethanol
Concen: 6.139 ppbv
RT: 3.62 min Scan# 211
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.5	14.9	59.5

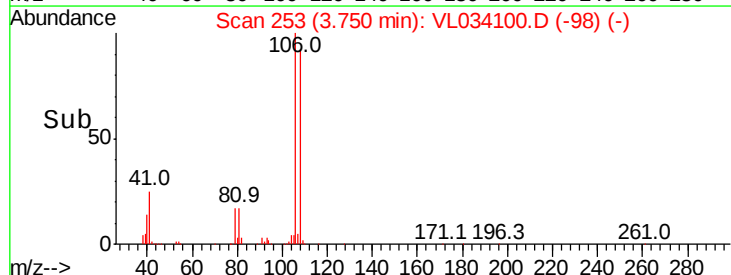
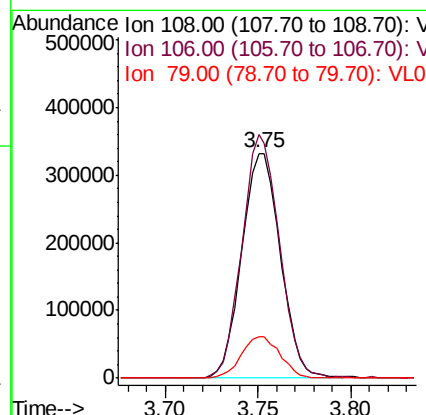
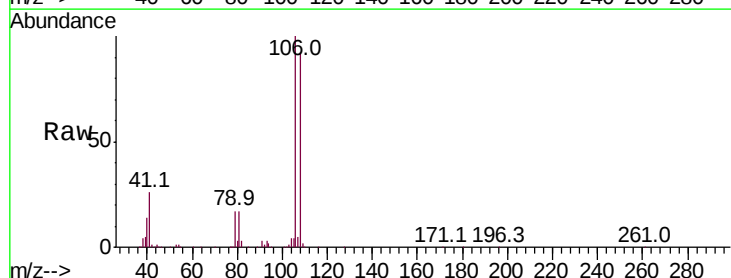
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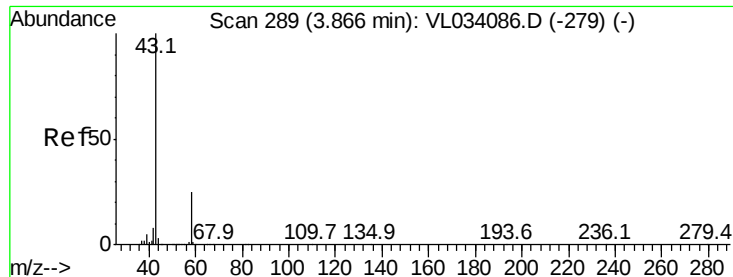
MMDadoda
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#14
Bromoethene
Concen: 9.080 ppbv
RT: 3.75 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.7	85.0	127.6
79	19.0	15.8	23.8





#15

Acetone

Concen: 7.954 ppbv

RT: 3.86 min Scan# 288

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1308808

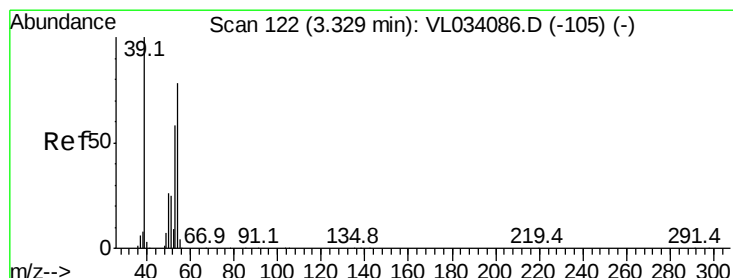
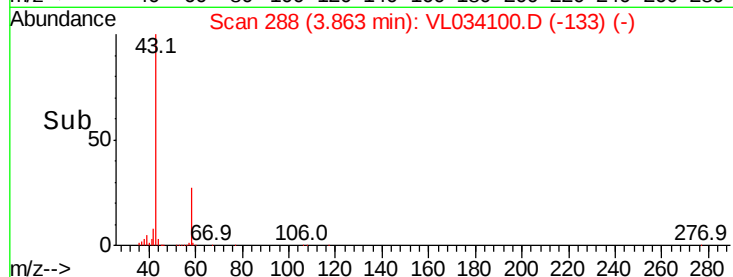
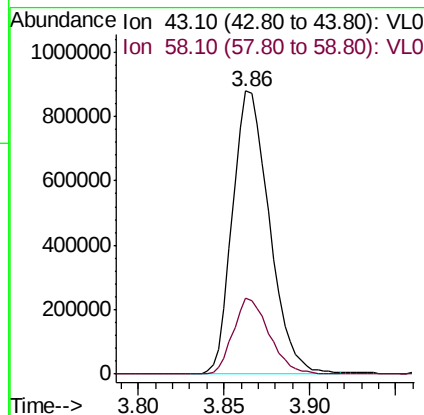
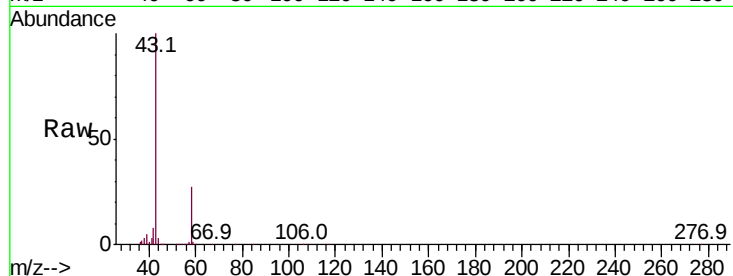
Ion Ratio Lower Upper

43 100

58 26.3 20.6 30.8

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#16

1,3-Butadiene

Concen: 8.921 ppbv

RT: 3.33 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL034100.D

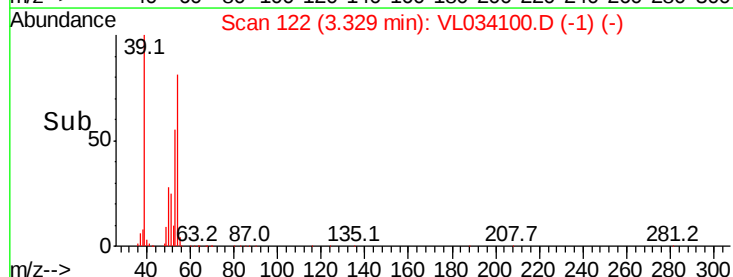
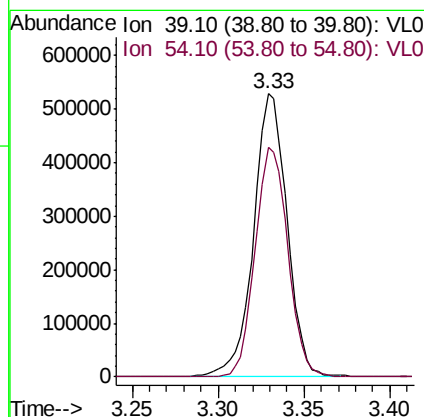
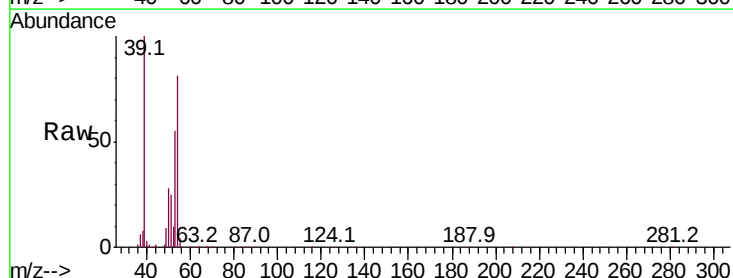
Acq: 12 Aug 2019 10:32

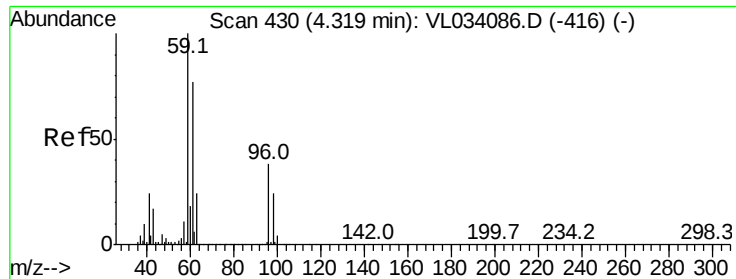
Tgt Ion: 39 Resp: 713887

Ion Ratio Lower Upper

39 100

54 79.8 62.7 94.1





#17

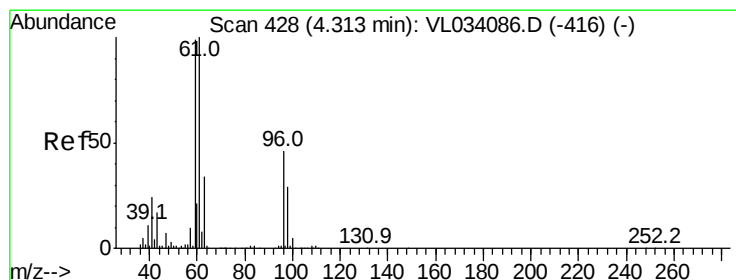
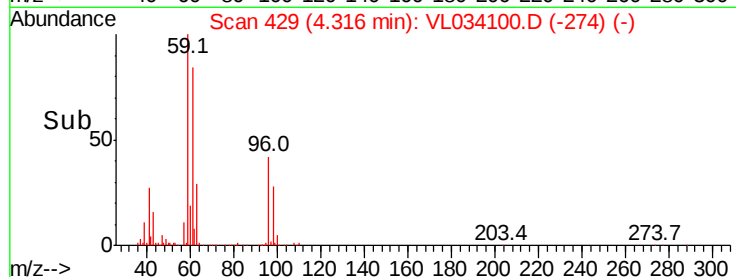
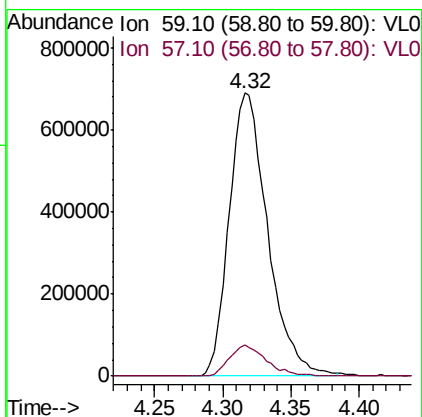
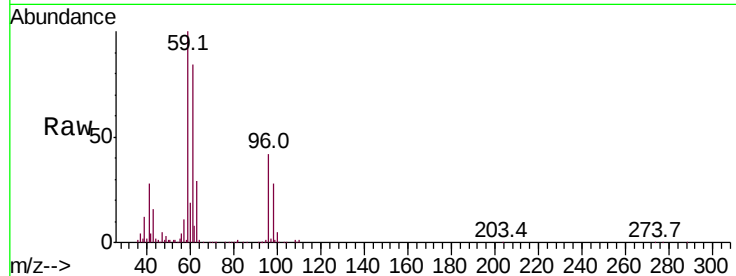
tert-Butyl alcohol
Concen: 8.825 ppbv
RT: 4.32 min Scan# 429
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1355171
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

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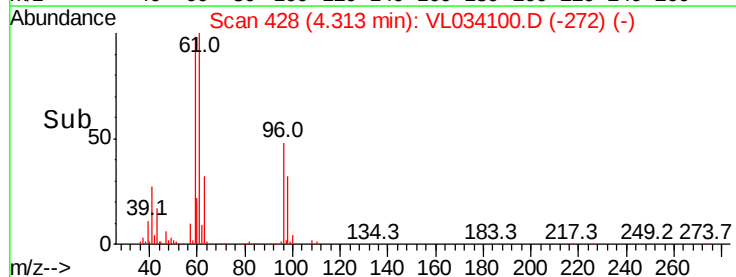
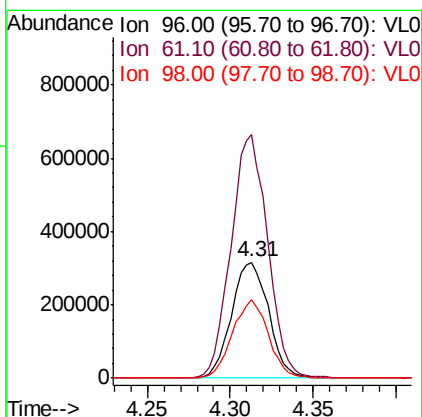
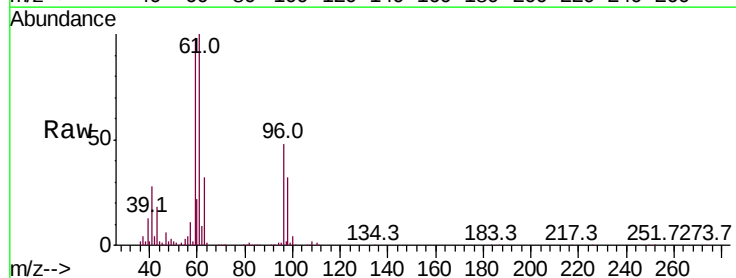
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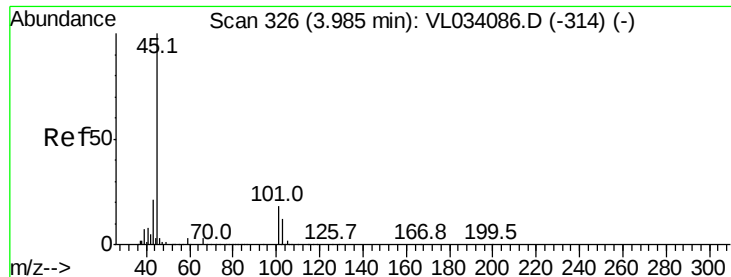


#18

1,1-Dichloroethene
Concen: 8.747 ppbv
RT: 4.31 min Scan# 428
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 96 Resp: 490465
Ion Ratio Lower Upper
96 100
61 210.1 173.1 259.7
98 67.7 50.3 75.5





#19

Isopropyl Alcohol

Concen: 8.538 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tot Ion: 45 Resp: 1093872

Ion Ratio Lower Upper

45 100

58 31.5 24.6 37.0

Instrument :

MSVOA_L

ClientSampleId :

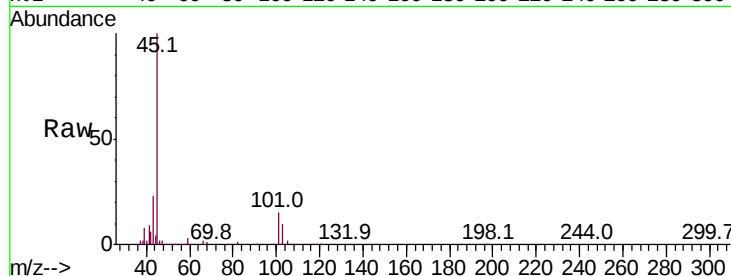
VSTDCCC010

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

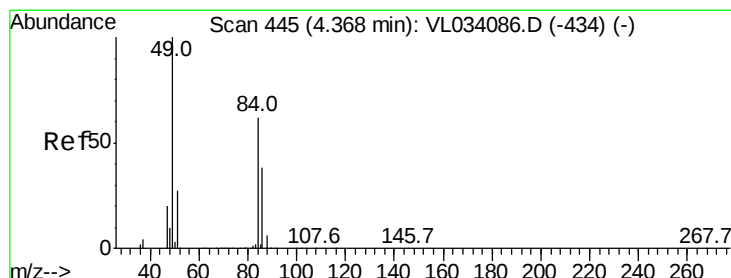
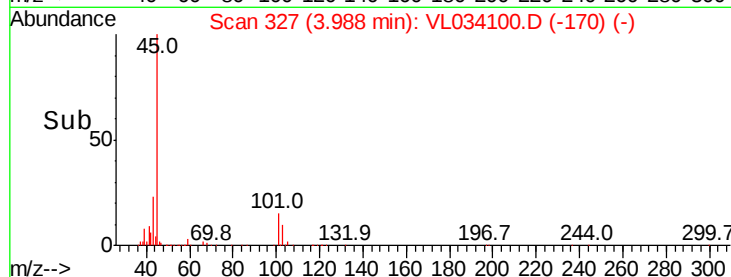
600000

400000

200000

0

Time-->



#20

Methylene Chloride

Concen: 8.825 ppbv

RT: 4.37 min Scan# 445

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion: 84 Resp: 435473

Ion Ratio Lower Upper

84 100

49 164.6 129.7 194.5

51 49.8 35.8 53.8

86 64.0 49.8 74.8

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

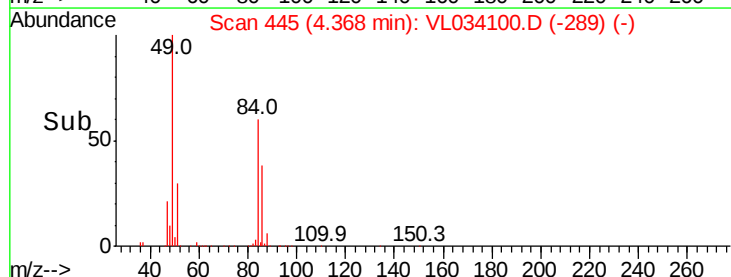
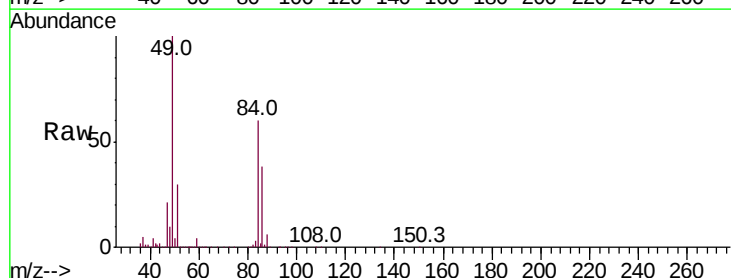
600000

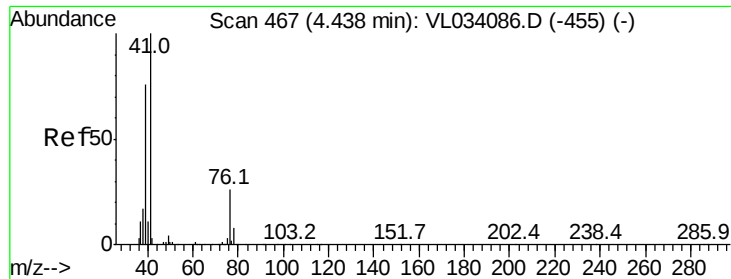
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 8.721 ppbv

RT: 4.44 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

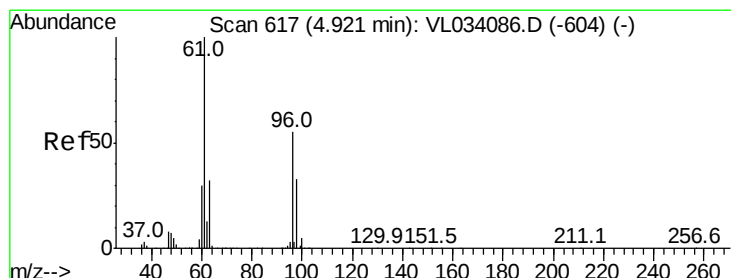
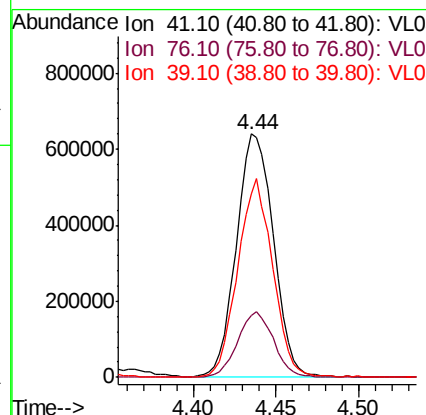
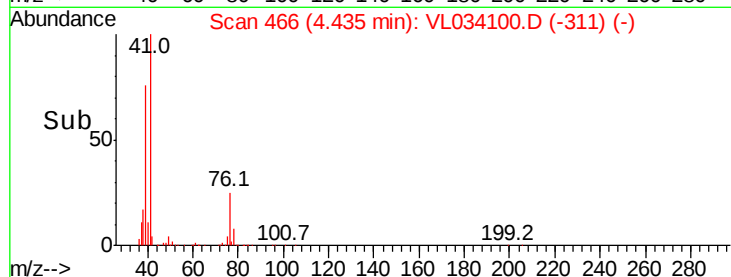
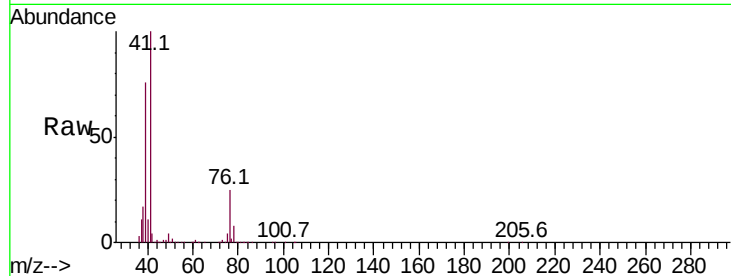
ClientSampleId :

VSTDCCC010

Tot Ion:	41	Resp:	993252
Ion Ratio		Lower	Upper
41	100		
76	26.2	20.8	31.2
39	77.6	61.3	91.9

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#22

trans-1,2-Dichloroethene

Concen: 9.147 ppbv

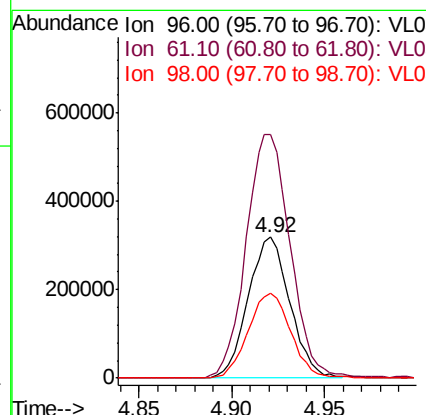
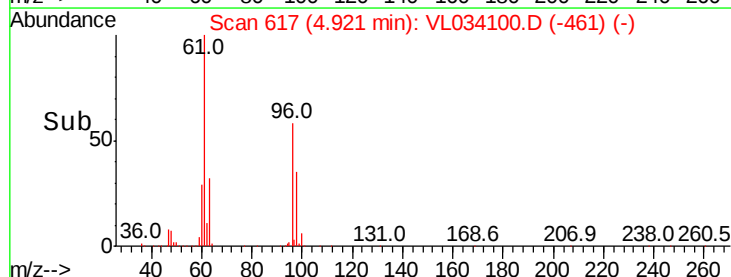
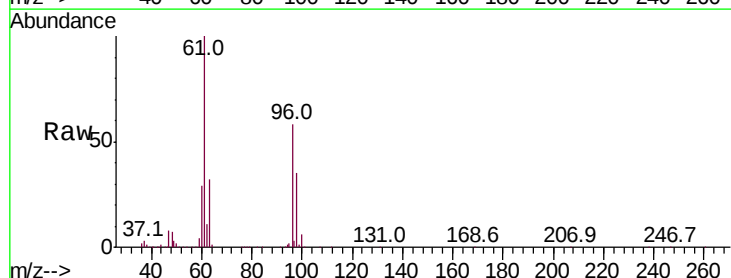
RT: 4.92 min Scan# 617

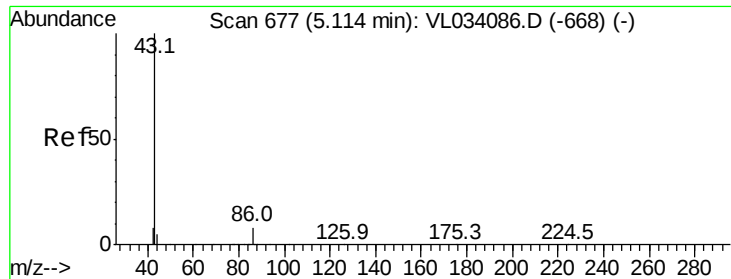
Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion:	96	Resp:	498407
Ion Ratio		Lower	Upper
96	100		
61	172.5	144.2	216.2
98	59.8	48.0	72.0





#23

Vinyl Acetate

Concen: 8.656 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2361584

Ion Ratio Lower Upper

43 100

86 7.6 5.4 8.0

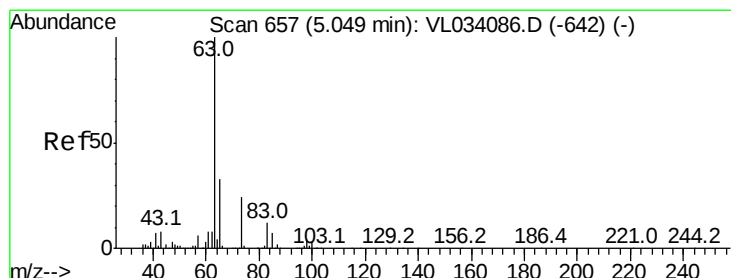
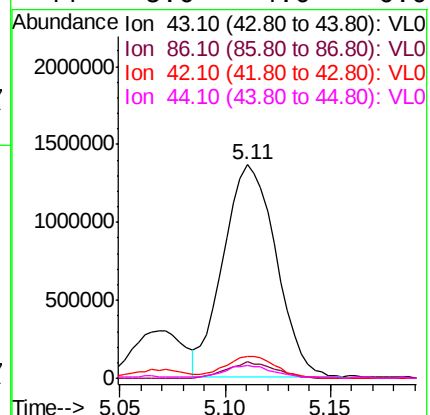
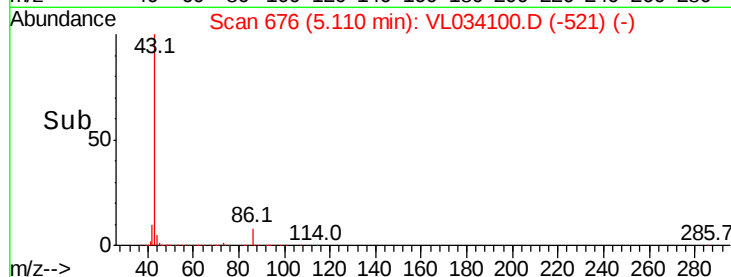
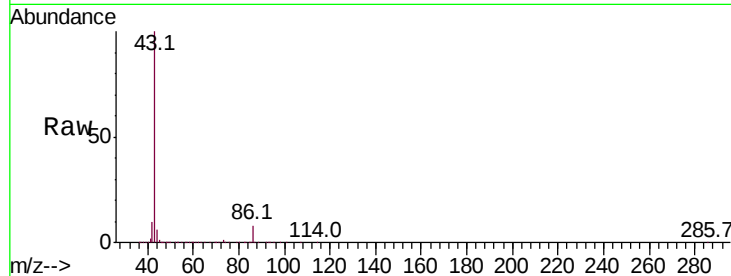
42 9.9 7.9 11.9

44 5.6 4.0 6.0

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 9.050 ppbv

RT: 5.05 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

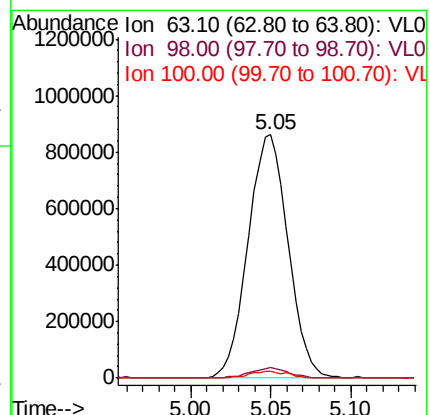
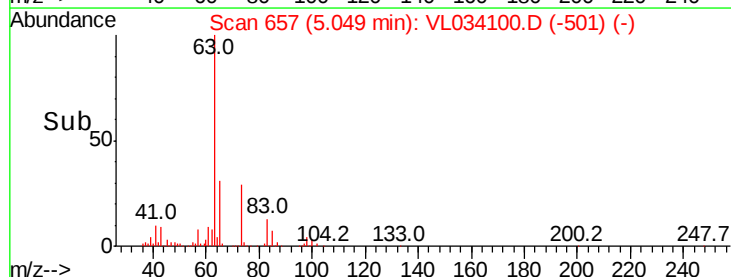
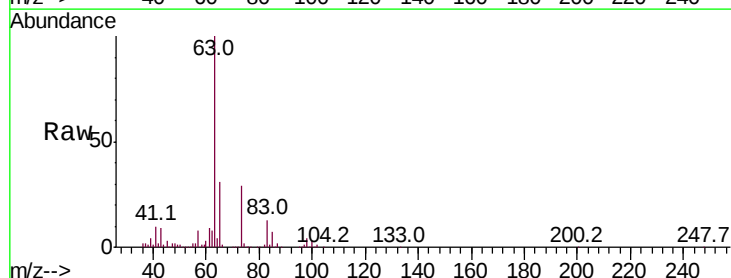
Tgt Ion: 63 Resp: 1469140

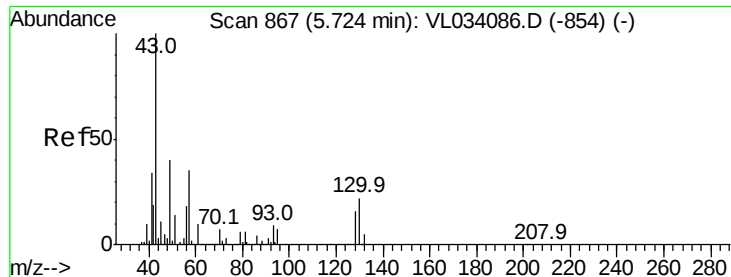
Ion Ratio Lower Upper

63 100

98 4.1 2.0 6.0

100 2.7 1.3 3.8





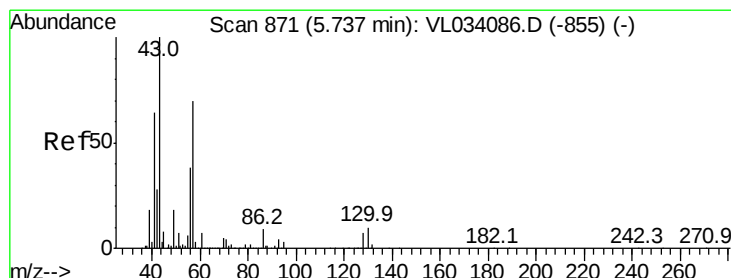
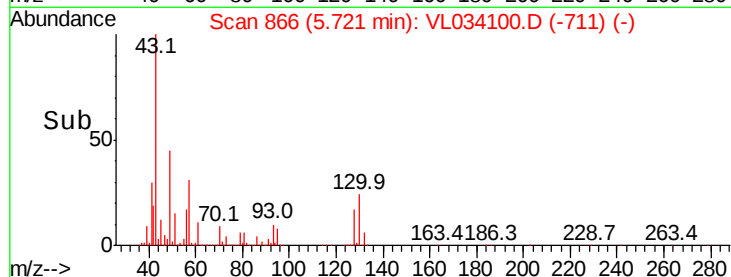
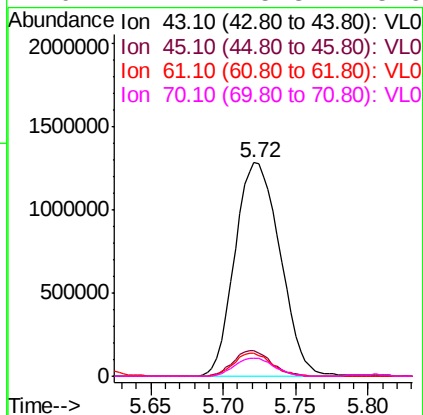
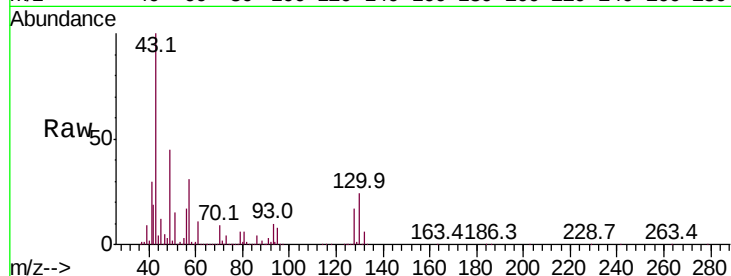
#25
Ethyl Acetate
Concen: 8.570 ppbv
RT: 5.72 min Scan# 866
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.4	12.6
61	9.2	7.3	10.9
70	7.4	5.8	8.6

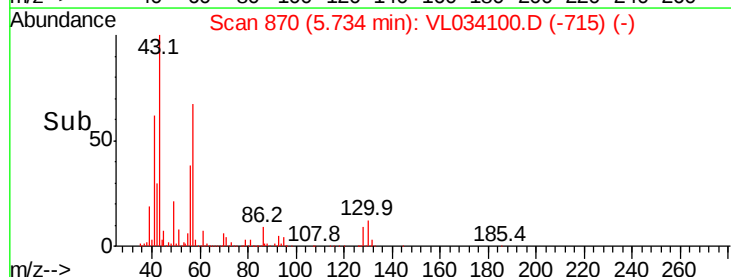
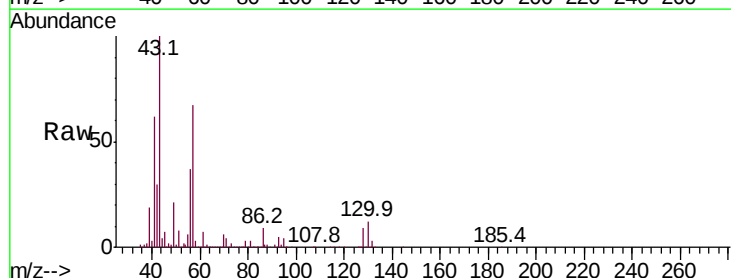
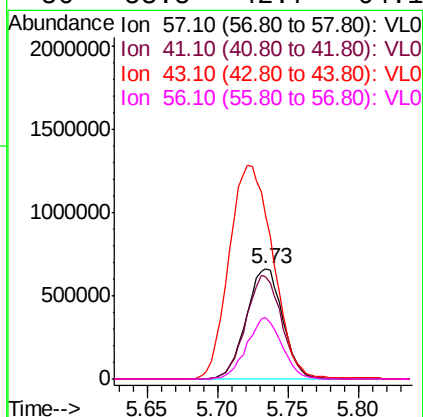
Manual Integrations
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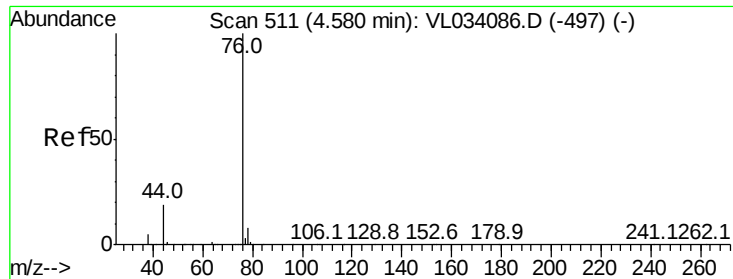
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#26
Hexane
Concen: 8.751 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.0	75.7	113.5
43	232.5	189.8	284.8
56	53.5	42.7	64.1





#27

Carbon Disulfide

Concen: 9.202 ppbv

RT: 4.58 min Scan# 510

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1330935

Ion Ratio Lower Upper

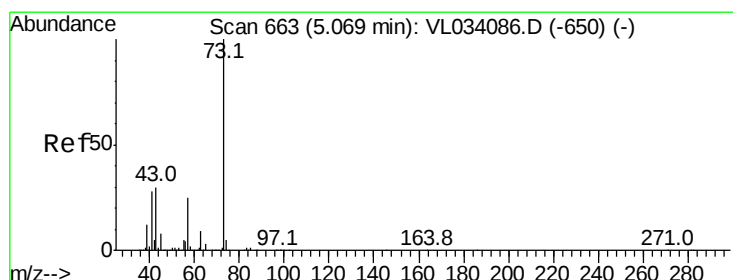
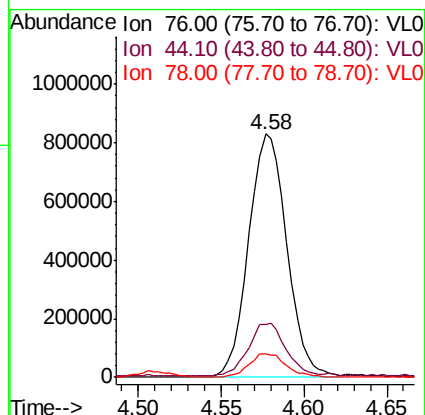
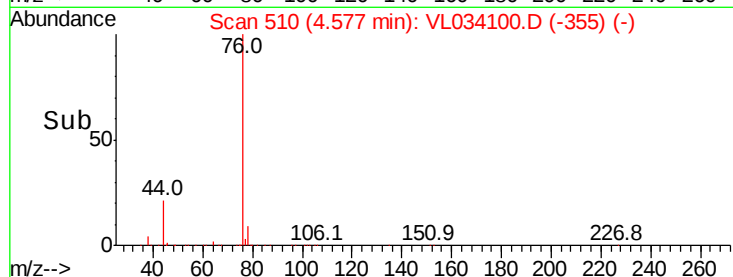
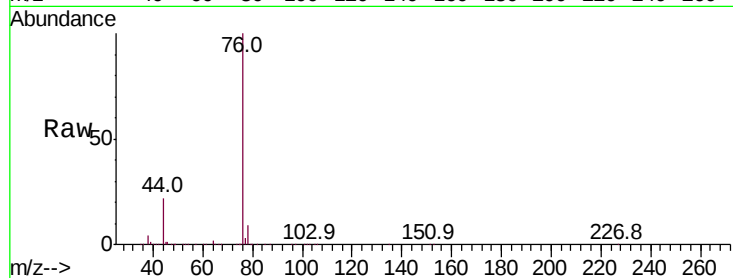
76 100

44 21.9 17.8 26.6

78 9.4 7.7 11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 8.838 ppbv

RT: 5.07 min Scan# 663

Delta R.T. 0.00 min

Lab File: VL034100.D

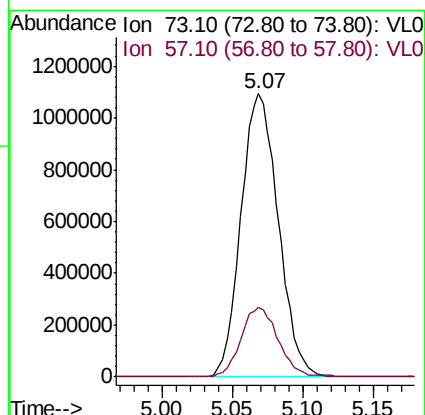
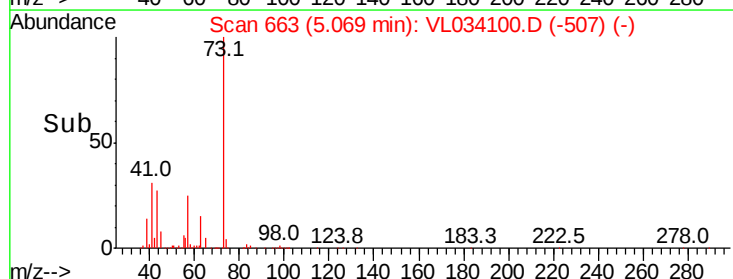
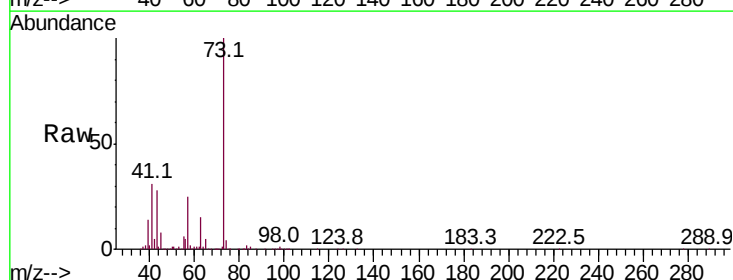
Acq: 12 Aug 2019 10:32

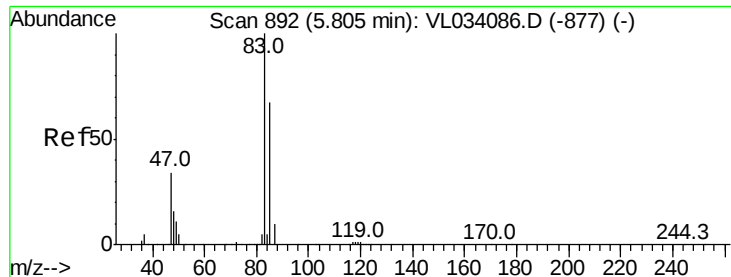
Tgt Ion: 73 Resp: 2027638

Ion Ratio Lower Upper

73 100

57 24.7 19.5 29.3





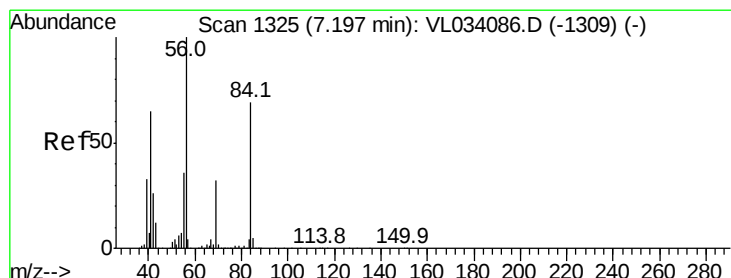
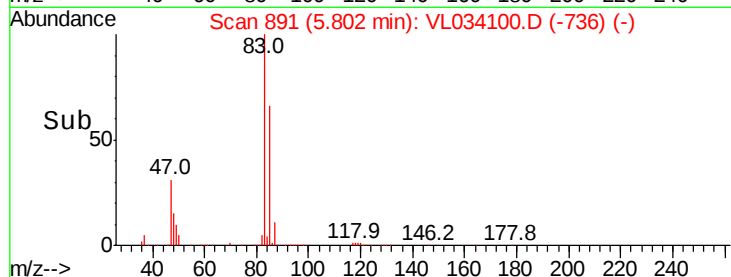
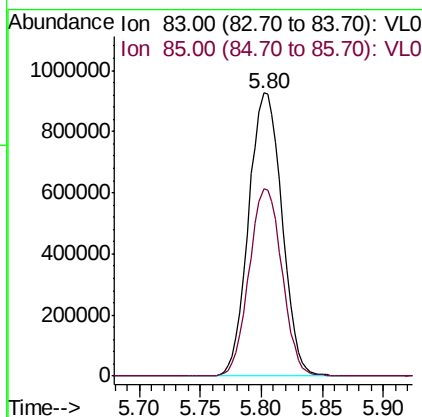
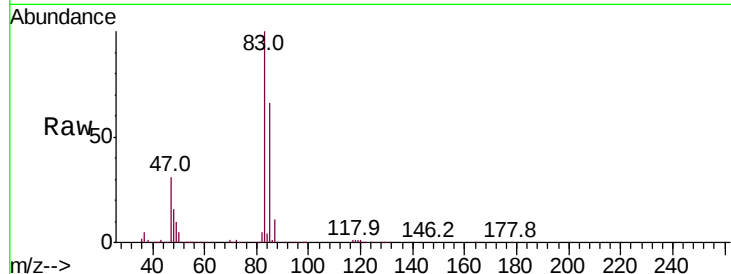
#29
Chloroform
Concen: 9.338 ppbv
RT: 5.80 min Scan# 891
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1741439
Ion Ratio Lower Upper
83 100
85 65.7 53.2 79.8

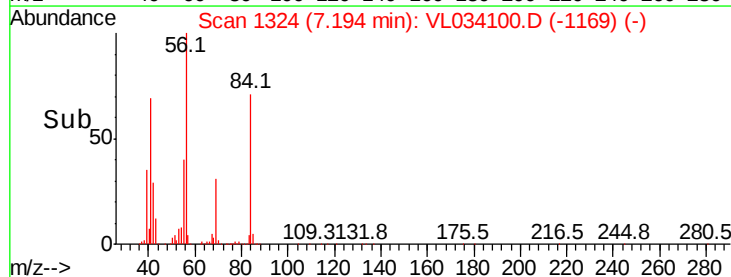
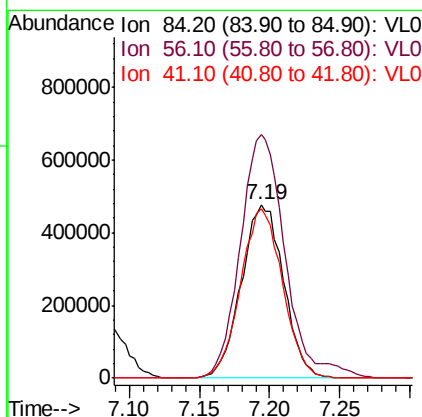
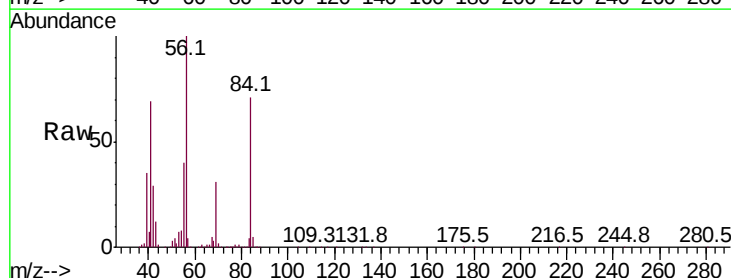
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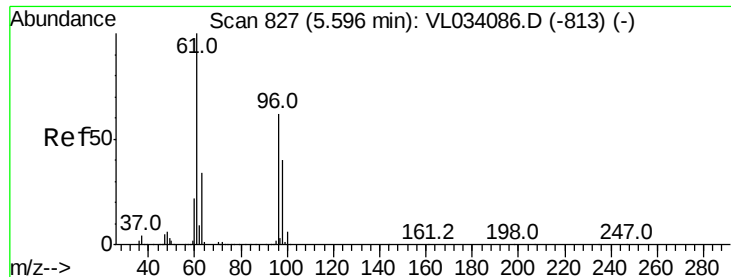
MMDadoda
8/16/2019 8:54:12 AM



#30
Cyclohexane
Concen: 9.205 ppbv
RT: 7.19 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 84 Resp: 997593
Ion Ratio Lower Upper
84 100
56 149.8 122.6 184.0
41 97.2 80.1 120.1





#31

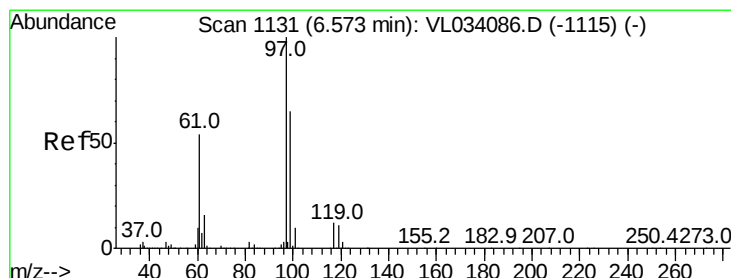
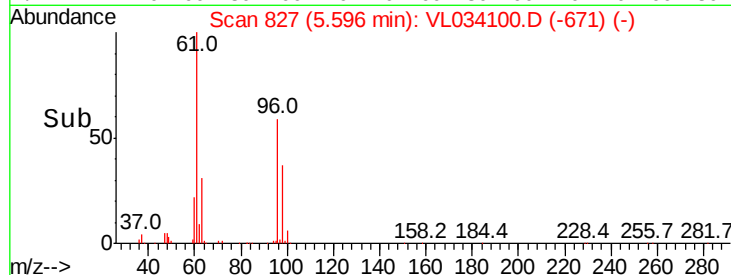
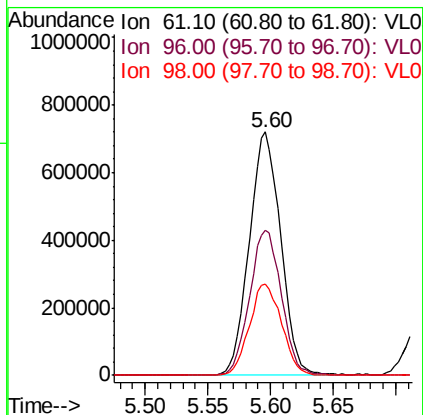
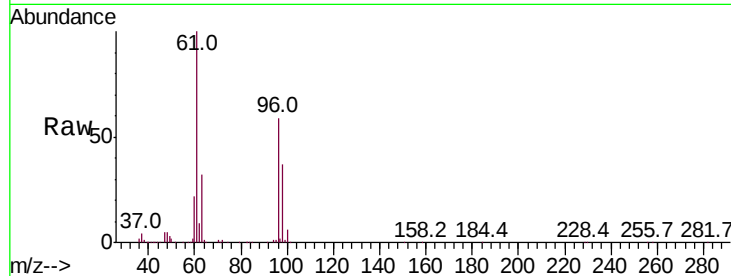
cis-1,2-Dichloroethene
Concen: 9.305 ppbv
RT: 5.60 min Scan# 827
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.3	49.3	73.9
98	37.4	32.4	48.6

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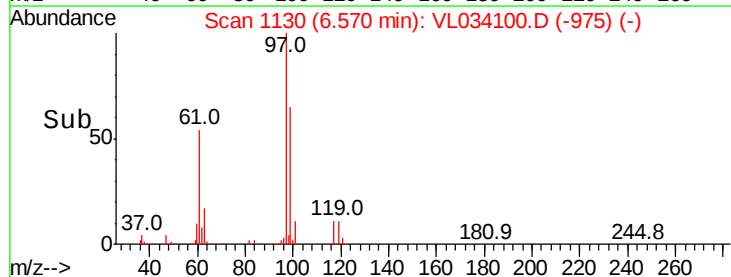
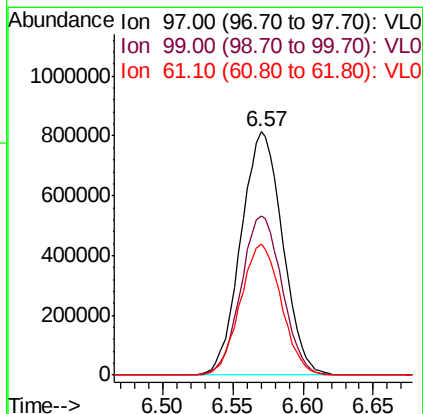
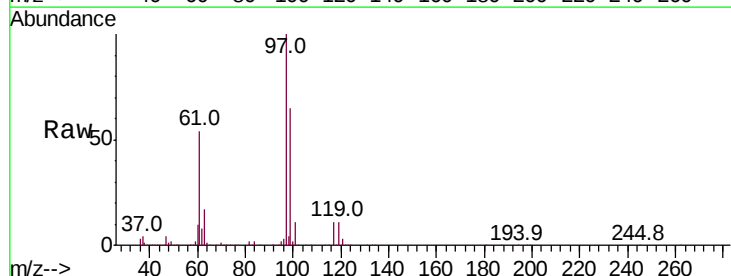
MMDadoda
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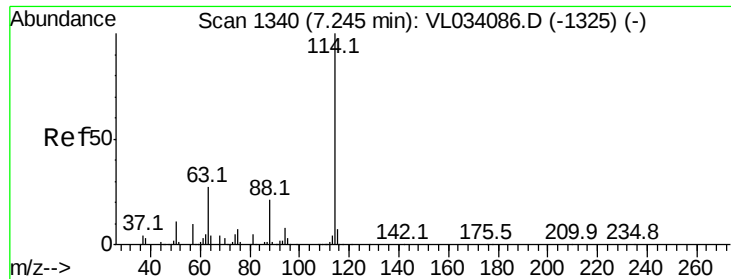


#32

1,1,1-Trichloroethane
Concen: 9.120 ppbv
RT: 6.57 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.2	78.4
61	53.3	42.0	63.0





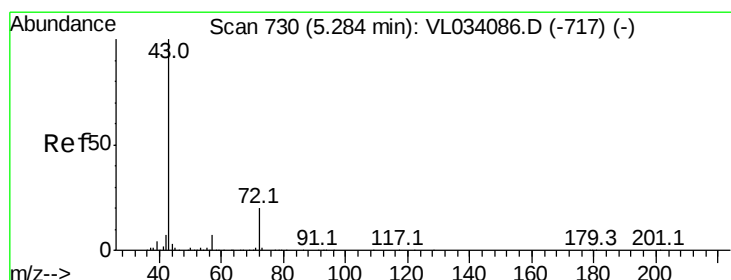
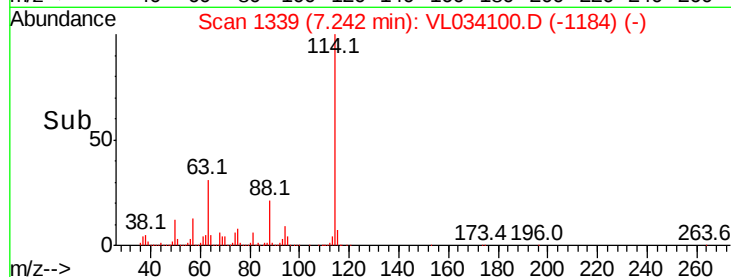
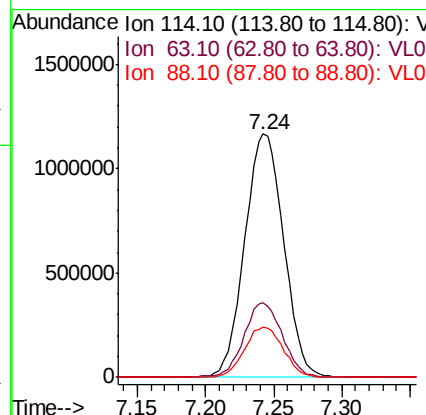
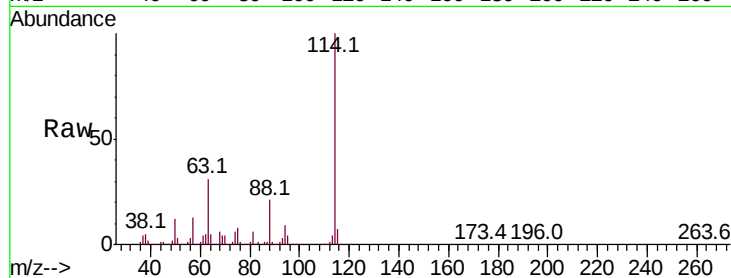
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 2313674
 Ion Ratio Lower Upper
 114 100
 63 30.5 22.5 33.7
 88 20.5 15.7 23.5

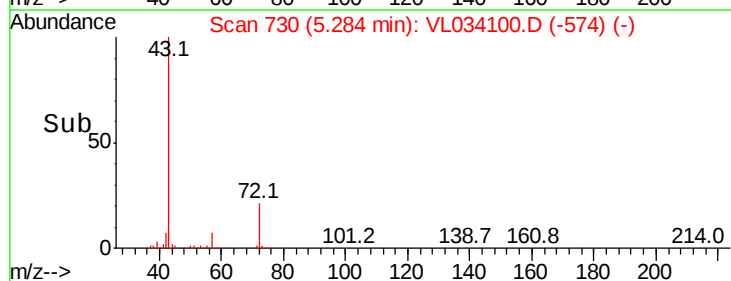
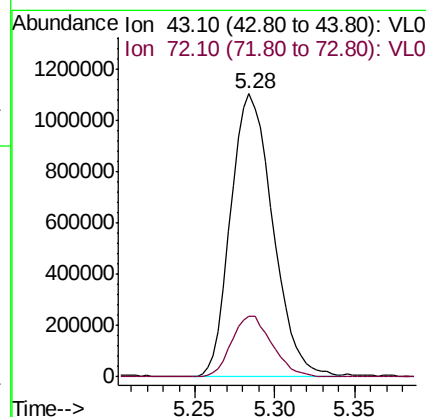
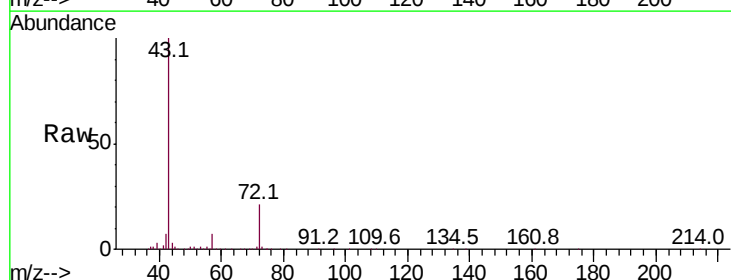
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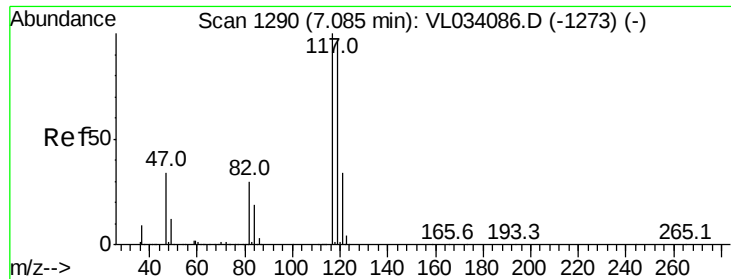
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#34
 2-Butanone
 Concen: 9.177 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion: 43 Resp: 1973917
 Ion Ratio Lower Upper
 43 100
 72 20.9 16.0 24.0





#35

Carbon Tetrachloride

Concen: 9.059 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1608763

Ion Ratio Lower Upper

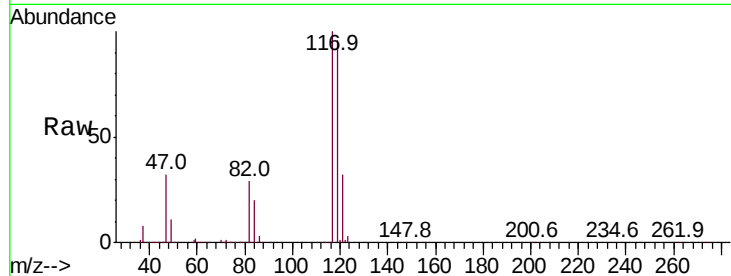
117 100

119 96.4 77.8 116.6

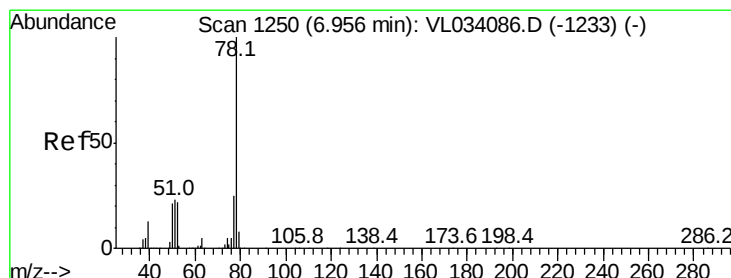
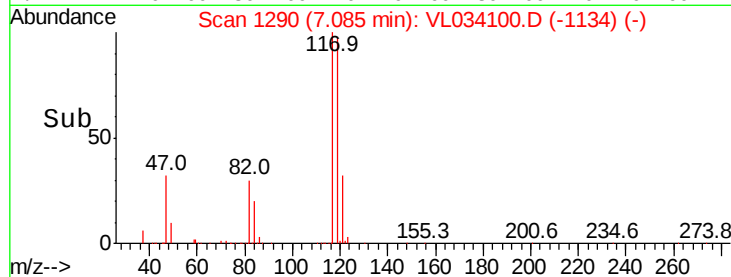
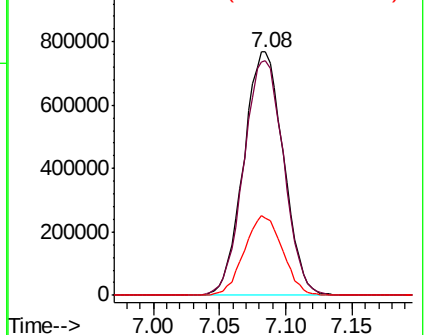
121 31.5 27.4 41.2

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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: 9.187 ppbv

RT: 6.96 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

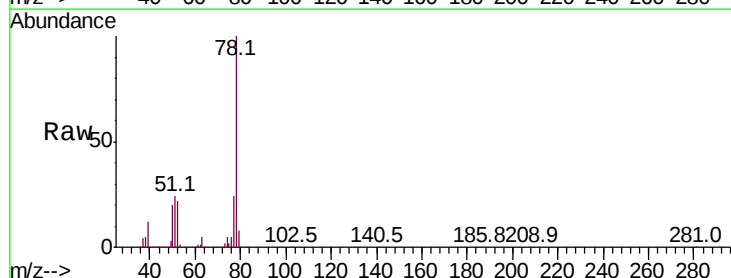
Tgt Ion: 78 Resp: 2415906

Ion Ratio Lower Upper

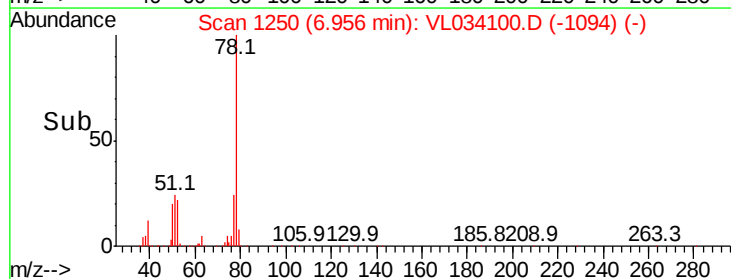
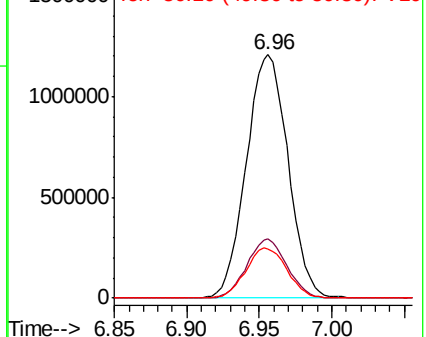
78 100

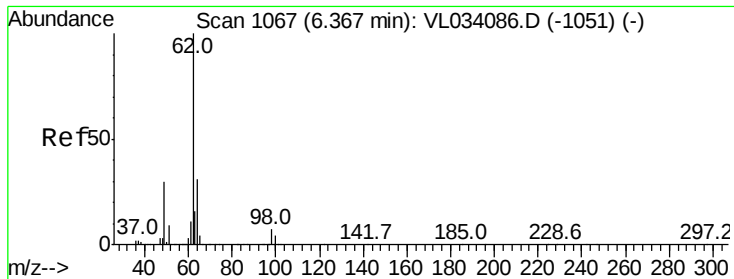
77 24.2 19.9 29.9

50 20.3 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: 9.815 ppbv

RT: 6.36 min Scan# 1066

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1388610

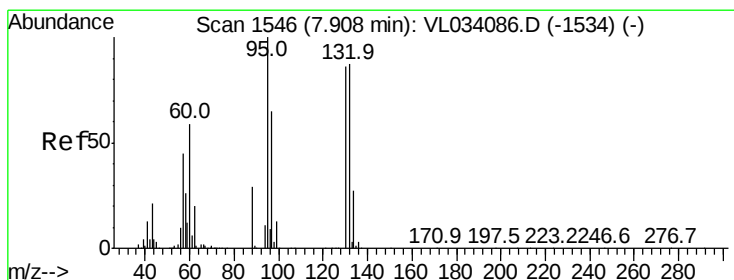
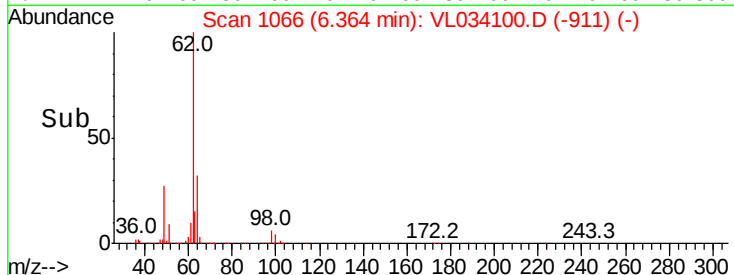
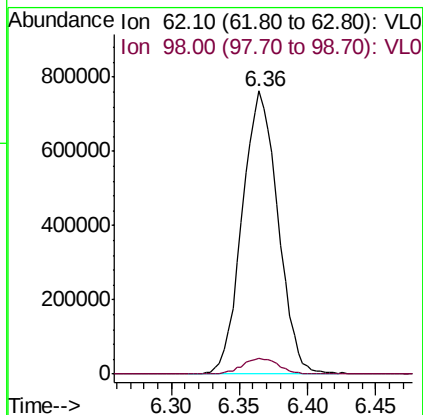
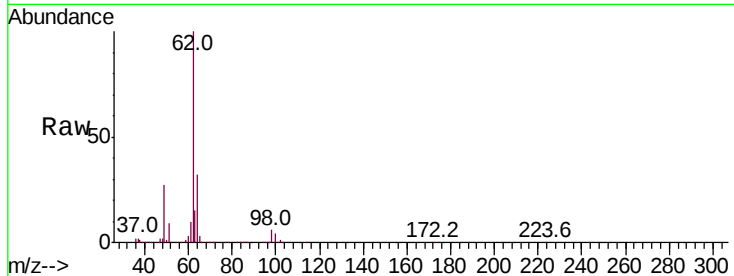
Ion Ratio Lower Upper

62 100

98 5.9 4.9 7.3

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#38

Trichloroethene

Concen: 7.891 ppbv

RT: 7.91 min Scan# 1546

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion:130 Resp: 803642

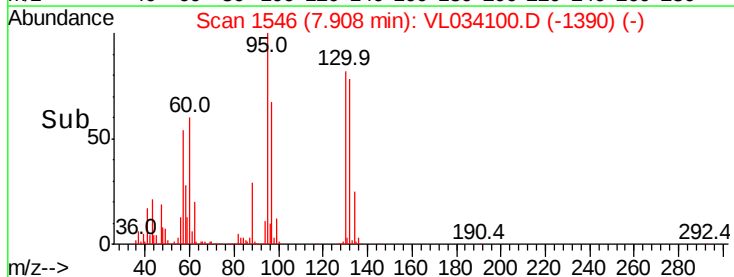
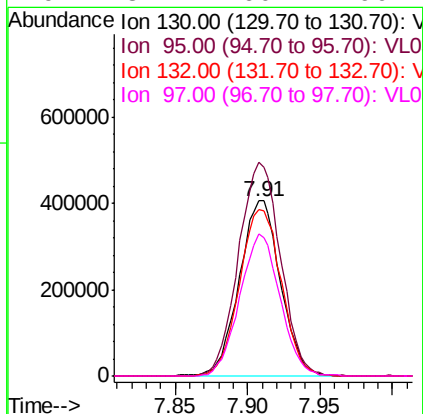
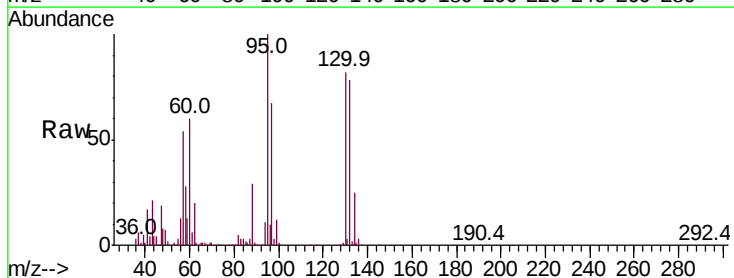
Ion Ratio Lower Upper

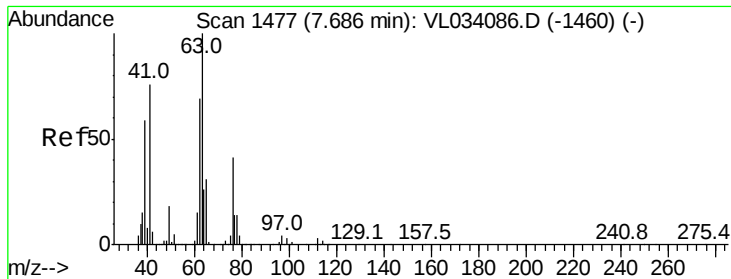
130 100

95 121.8 92.1 138.1

132 95.2 79.7 119.5

97 81.1 60.2 90.4





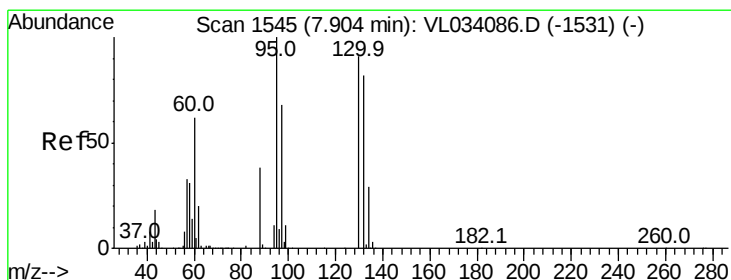
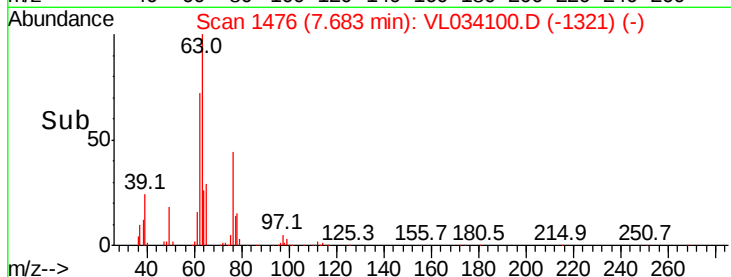
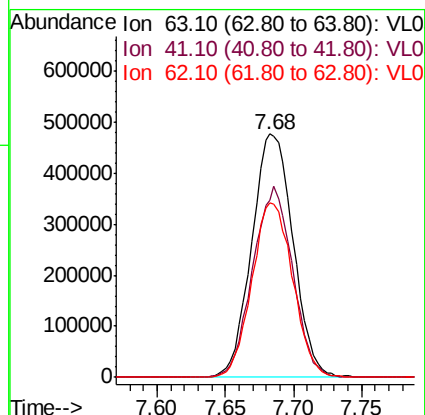
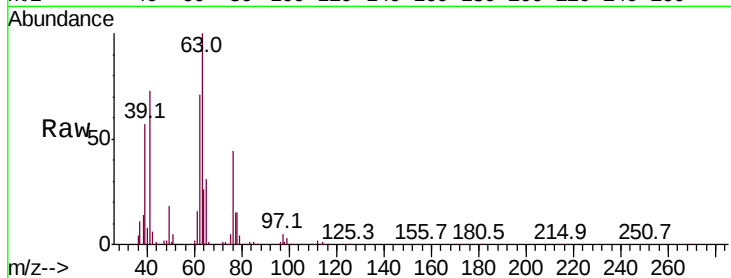
#39
 1,2-Dichloropropane
 Concen: 9.455 ppbv
 RT: 7.68 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	72.6	60.6	91.0
62	71.5	55.0	82.6

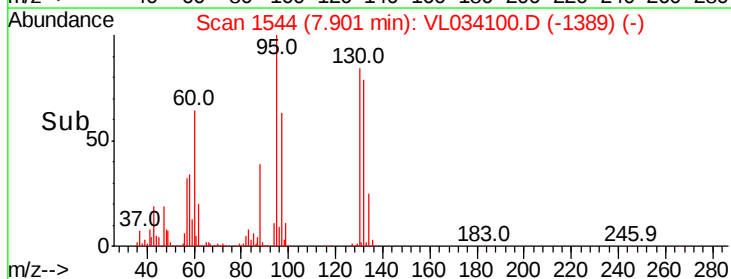
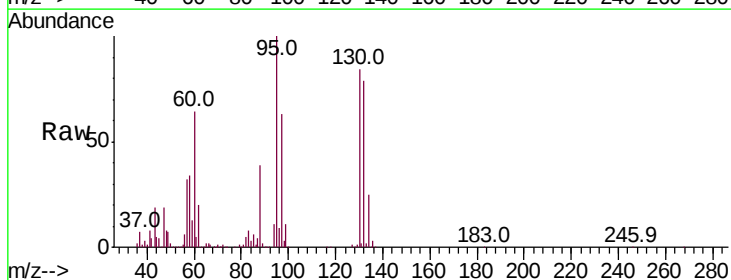
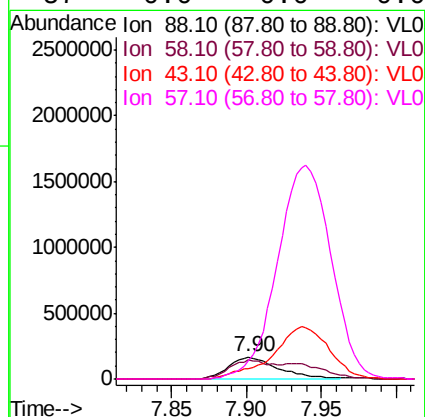
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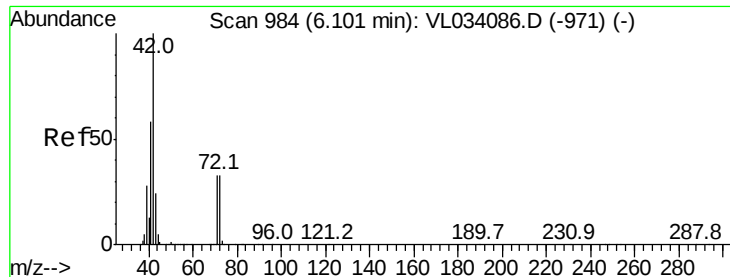
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#40
 1,4-Dioxane
 Concen: 9.544 ppbv
 RT: 7.90 min Scan# 1544
 Delta R.T. -0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	135.8	113.0	169.4
43	0.0	0.0	0.0
57	0.0	0.0	0.0





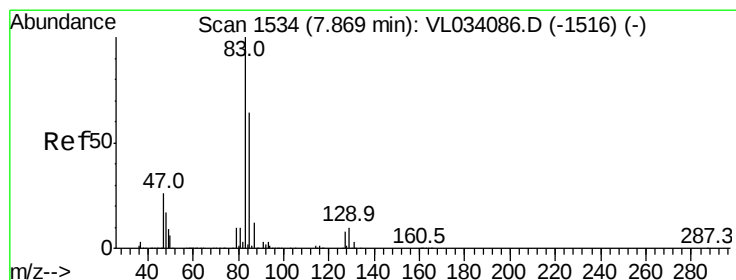
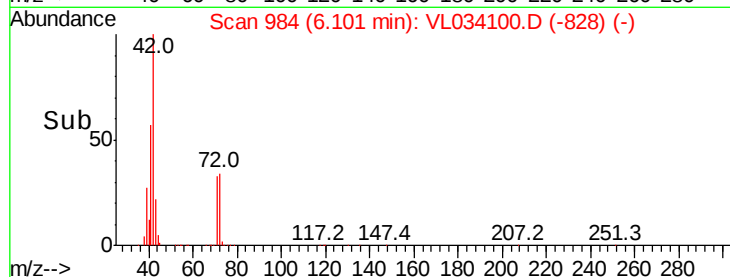
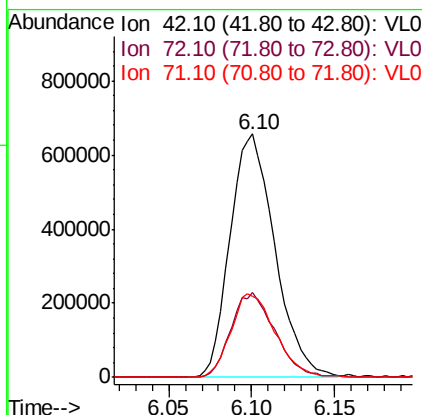
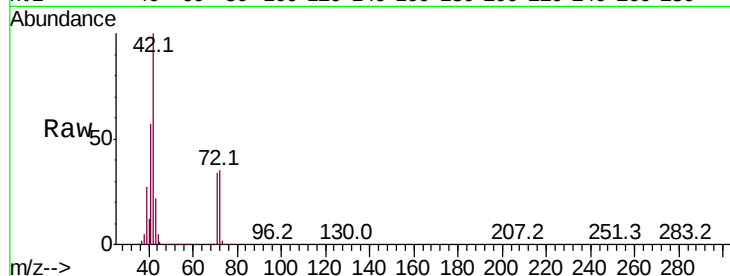
#41
Tetrahydrofuran
Concen: 9.328 ppbv
RT: 6.10 min Scan# 984
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.4	26.9	40.3
71	34.2	26.5	39.7

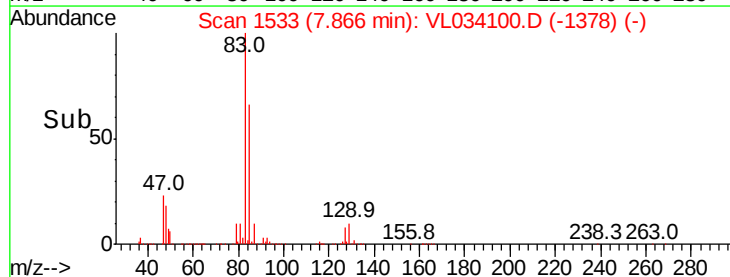
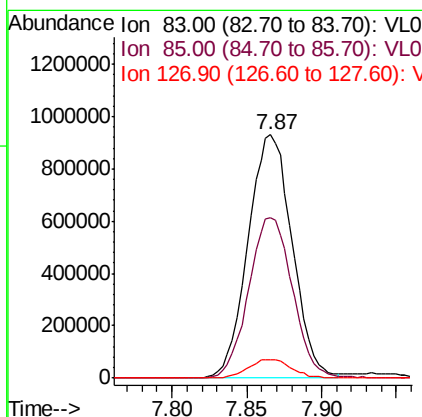
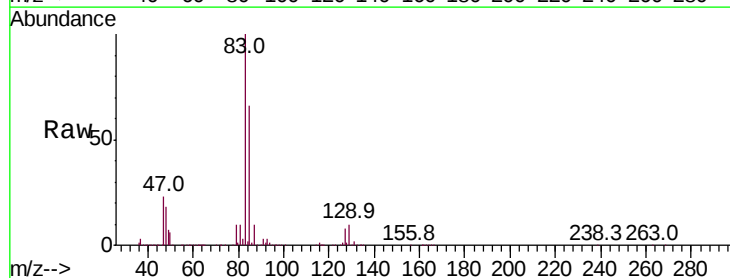
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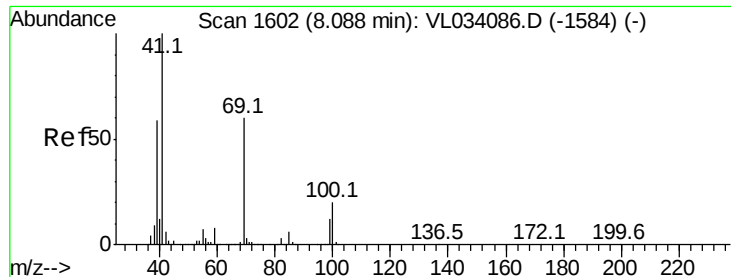
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#42
Bromodichloromethane
Concen: 9.615 ppbv
RT: 7.87 min Scan# 1533
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.9	76.3
127	7.7	6.1	9.1





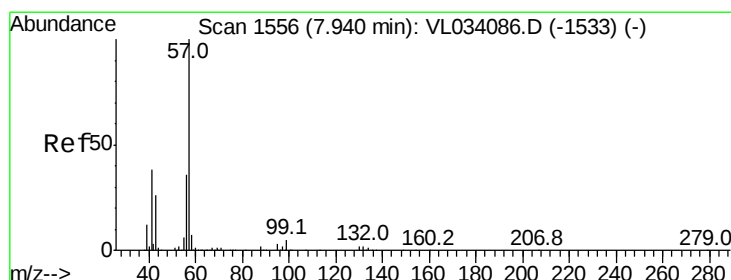
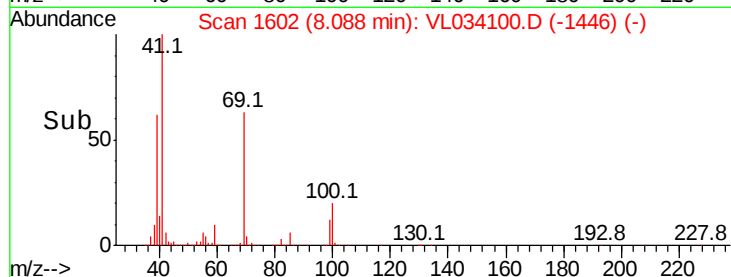
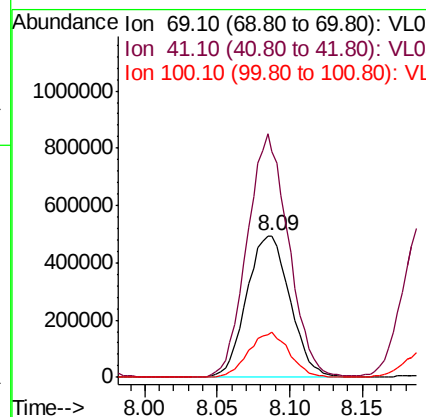
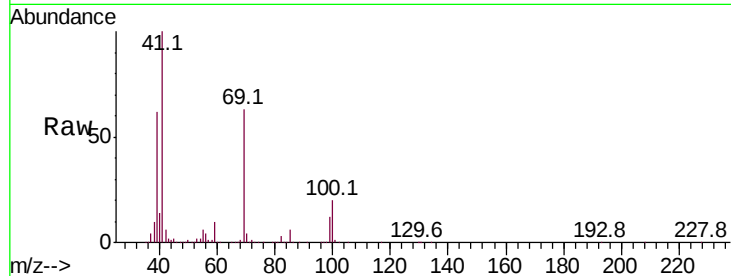
#43
Methvl Methacrvlate
Concen: 9.533 ppbv
RT: 8.09 min Scan# 1602
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1028245
Ion Ratio Lower Upper
69 100
41 164.4 132.9 199.3
100 30.3 25.8 38.8

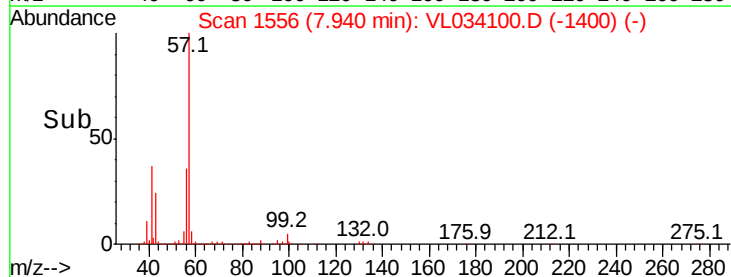
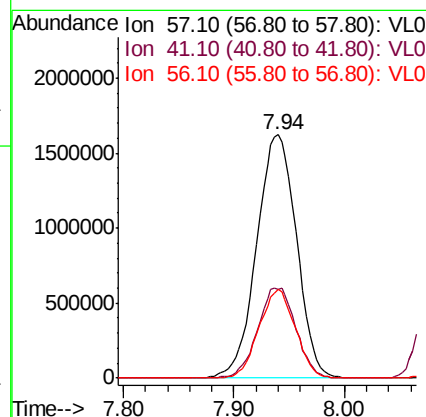
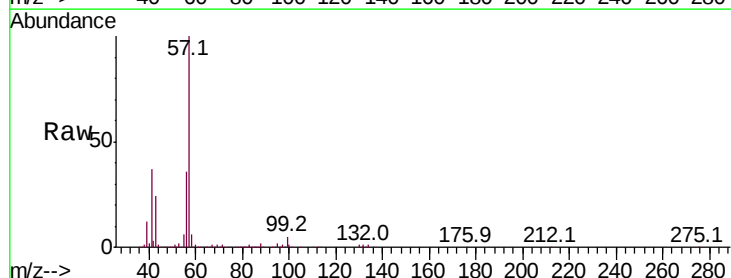
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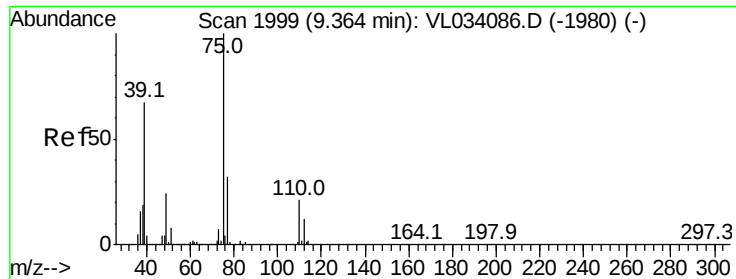
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 8.622 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 57 Resp: 4059473
Ion Ratio Lower Upper
57 100
41 35.5 29.2 43.8
56 33.3 26.7 40.1





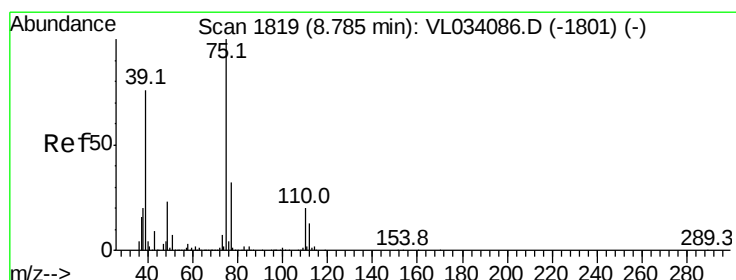
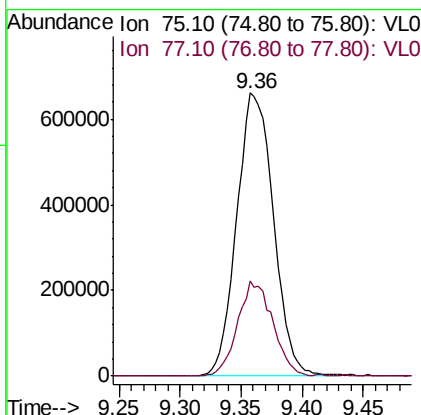
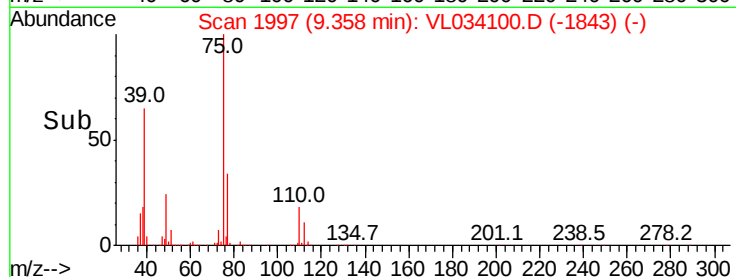
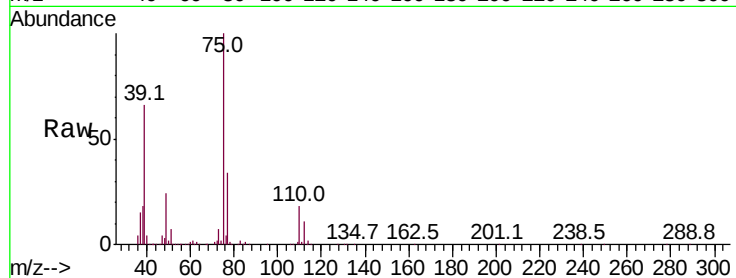
#45
t-1,3-Dichloropropene
Concen: 10.071 ppbv
RT: 9.36 min Scan# 1997
Delta R.T. -0.01 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1377141
Ion Ratio Lower Upper
75 100
77 33.7 25.7 38.5

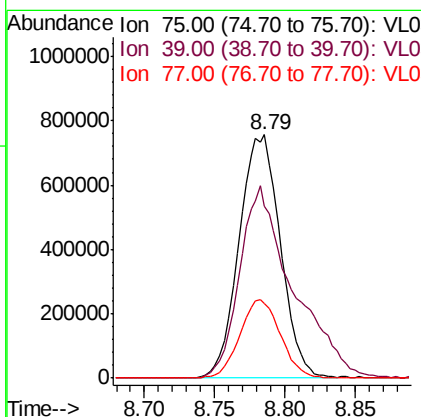
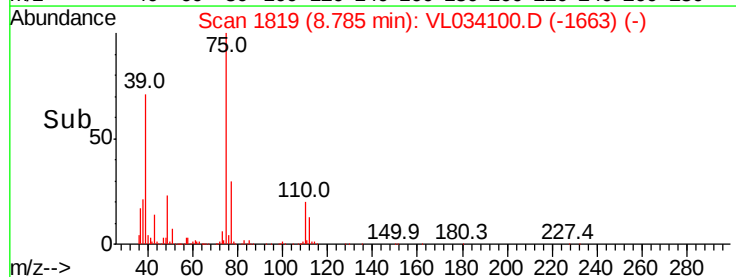
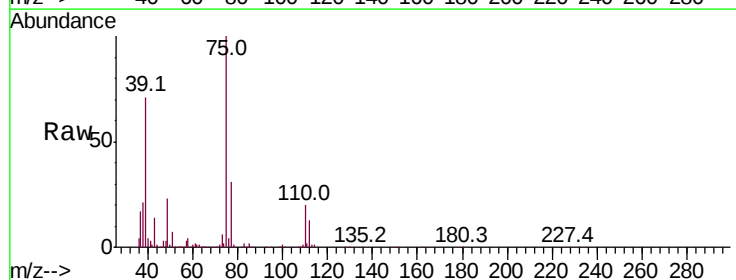
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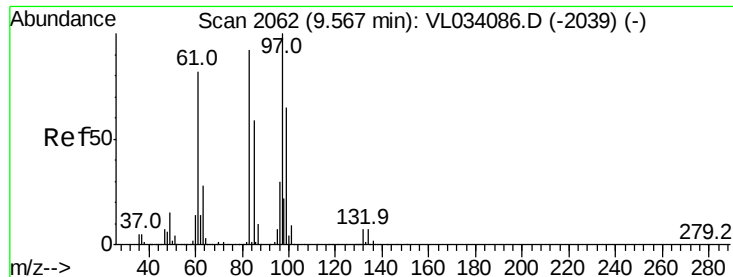
MMDadoda
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#46
cis-1,3-Dichloropropene
Concen: 9.816 ppbv
RT: 8.79 min Scan# 1819
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 75 Resp: 1549036
Ion Ratio Lower Upper
75 100
39 70.6 61.0 91.4
77 30.5 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 9.619 ppbv

RT: 9.56 min Scan# 2060

Delta R.T. -0.01 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

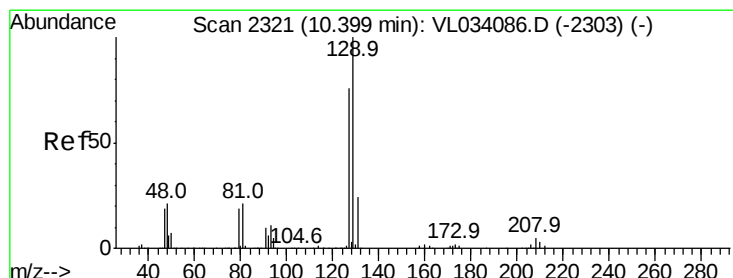
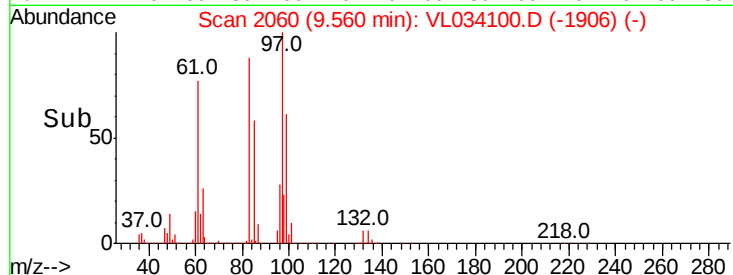
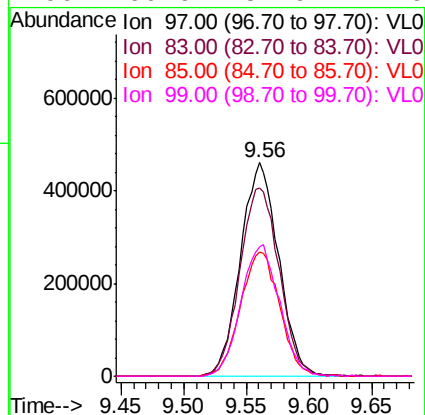
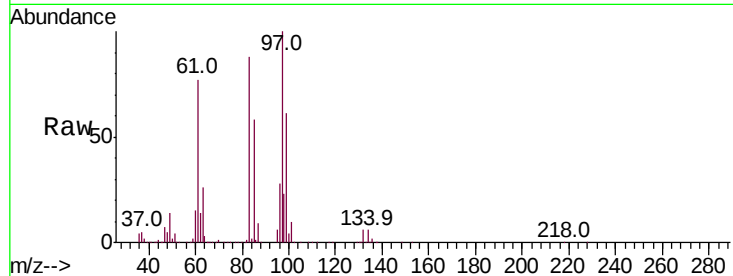
ClientSampleId :

VSTDCCC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		975732		
83	88.1	74.0	111.0		
85	58.3	47.1	70.7		
99	60.6	51.9	77.9		

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#48

Dibromochloromethane

Concen: 9.351 ppbv

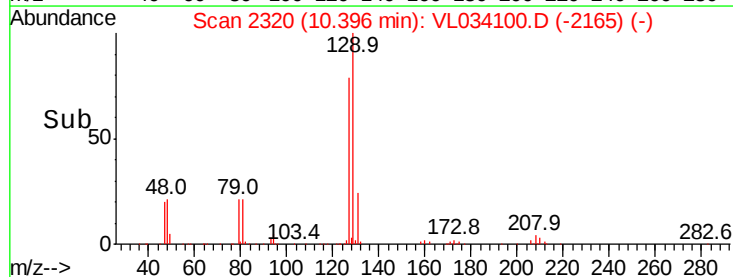
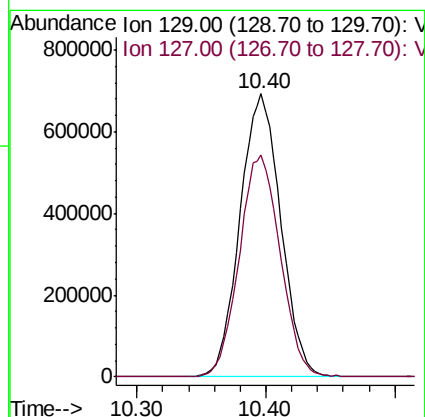
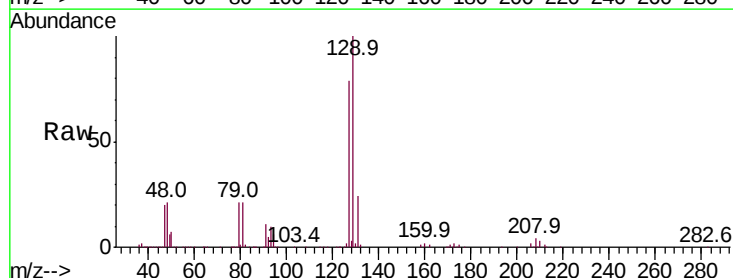
RT: 10.40 min Scan# 2320

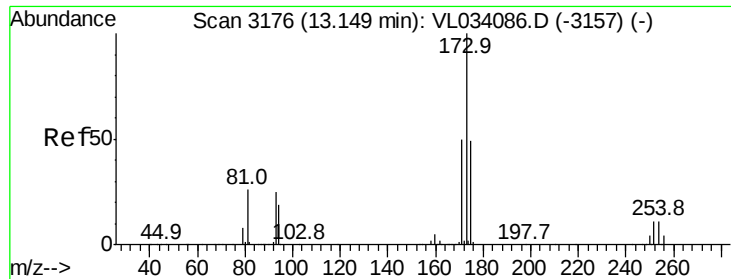
Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1520871		
127	79.2	39.4	118.2		





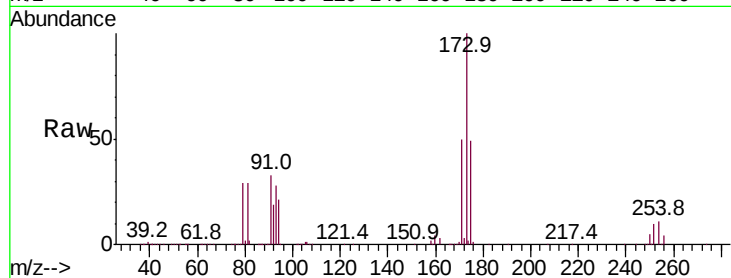
#49
Bromoform
Concen: 9.362 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

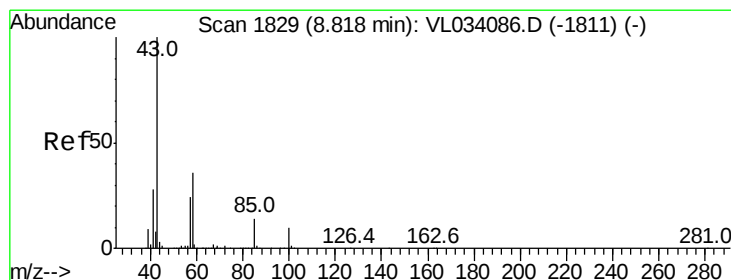
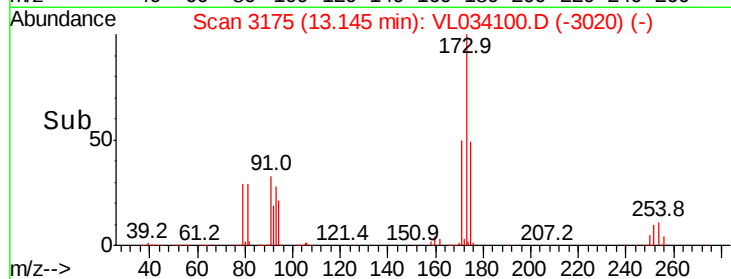
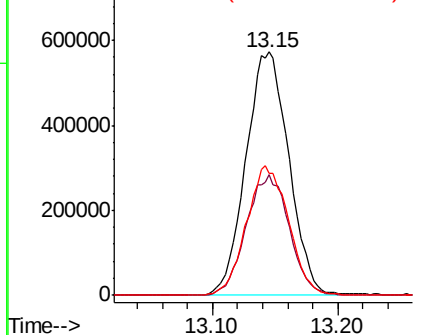
Tot Ion:173 Resp: 1361529
Ion Ratio Lower Upper
173 100
175 49.6 39.8 59.8
171 52.4 42.7 64.1

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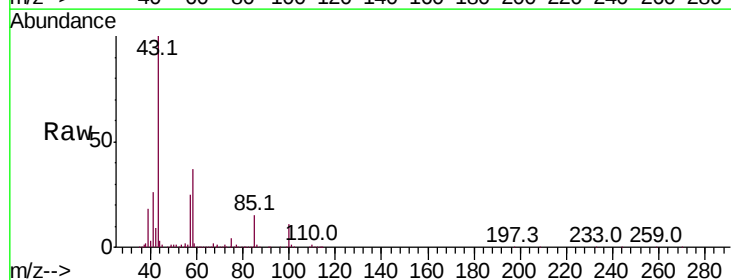


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

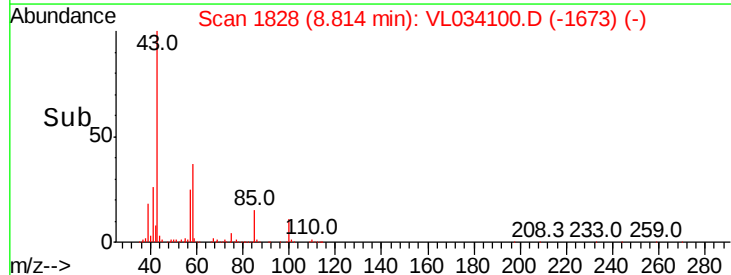
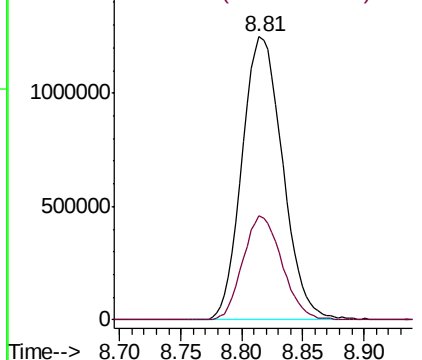


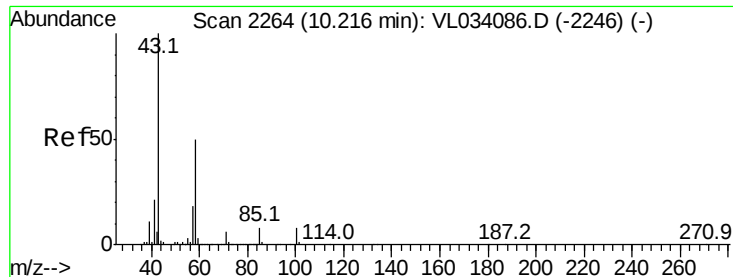
#50
4-Methyl-2-Pentanone
Concen: 8.785 ppbv
RT: 8.81 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 43 Resp: 2875990
Ion Ratio Lower Upper
43 100
58 35.7 28.2 42.2



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





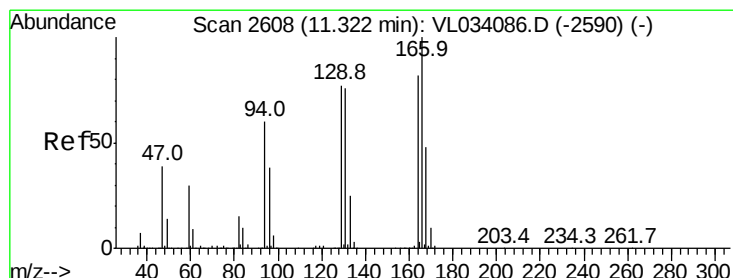
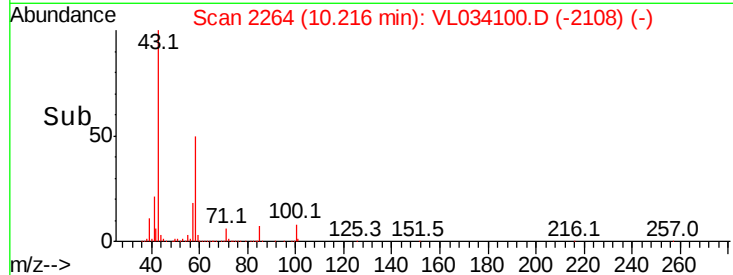
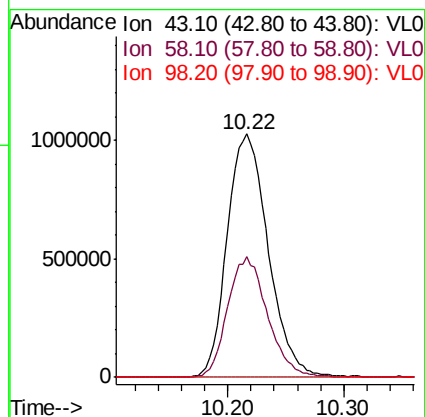
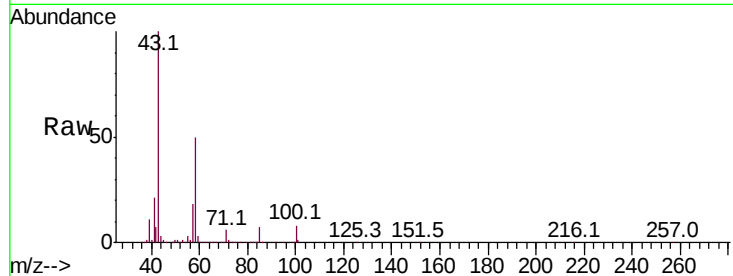
#51
2-Hexanone
Concen: 9.127 ppbv
RT: 10.22 min Scan# 2264
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.5	57.7
98	0.0	0.0	0.0#

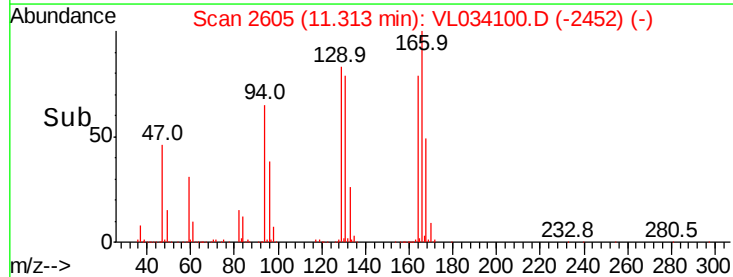
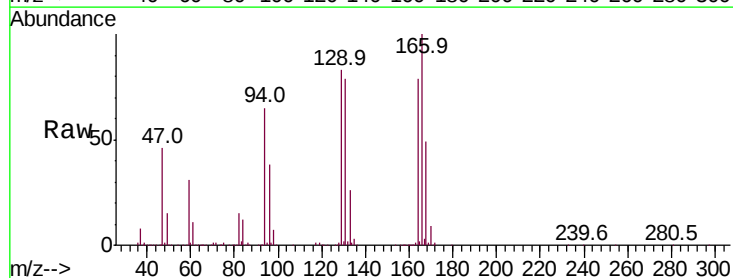
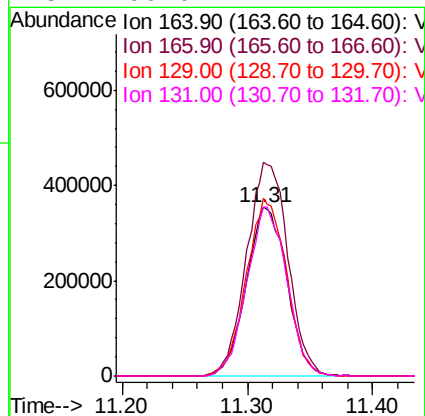
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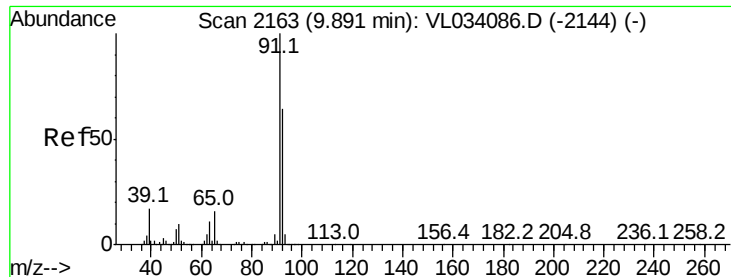
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#52
Tetrachloroethene
Concen: 7.837 ppbv
RT: 11.31 min Scan# 2605
Delta R.T. -0.01 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	96.8	145.2
129	105.3	74.9	112.3
131	100.0	74.2	111.2





#53

Toluene

Concen: 8.948 ppbv

RT: 9.89 min Scan# 2163

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2715544

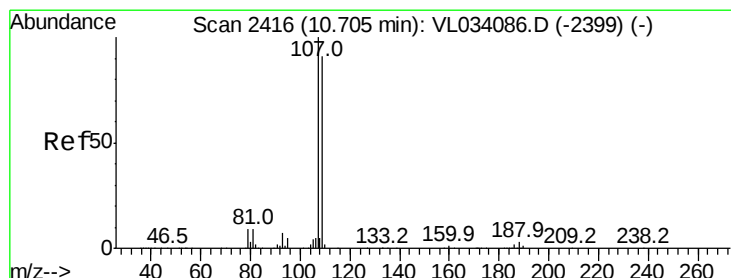
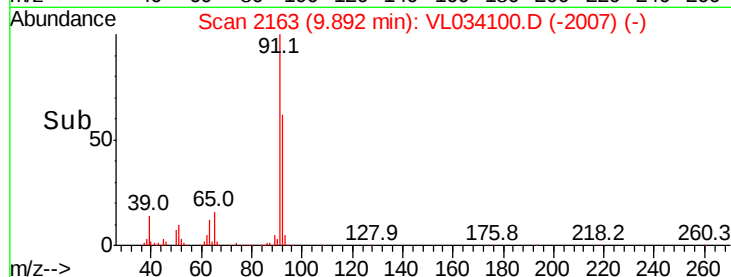
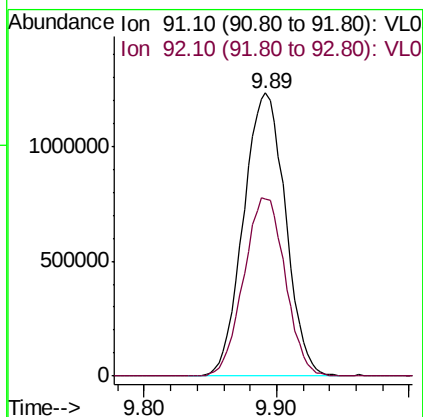
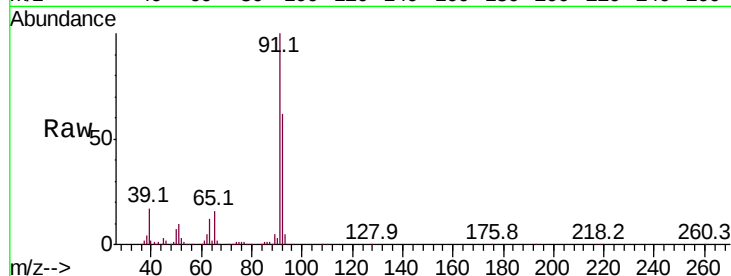
Ion Ratio Lower Upper

91 100

92 62.3 50.3 75.5

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#54

1,2-Dibromoethane

Concen: 9.221 ppbv

RT: 10.70 min Scan# 2415

Delta R.T. -0.00 min

Lab File: VL034100.D

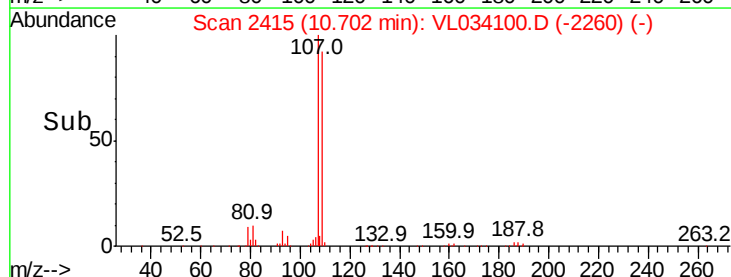
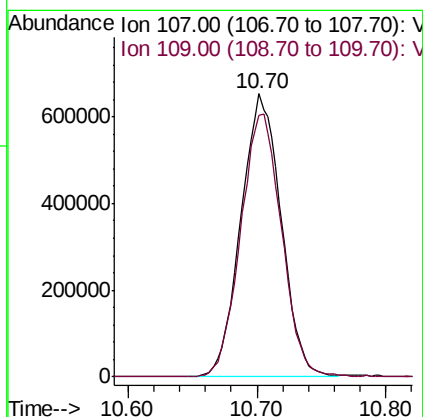
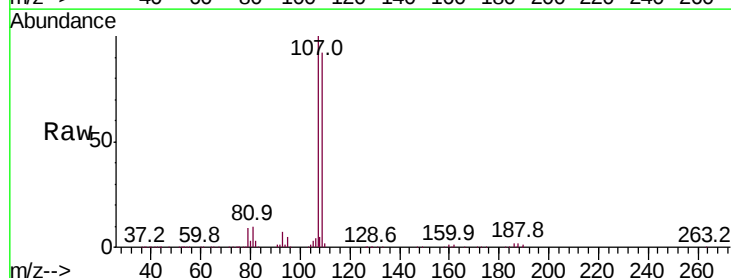
Acq: 12 Aug 2019 10:32

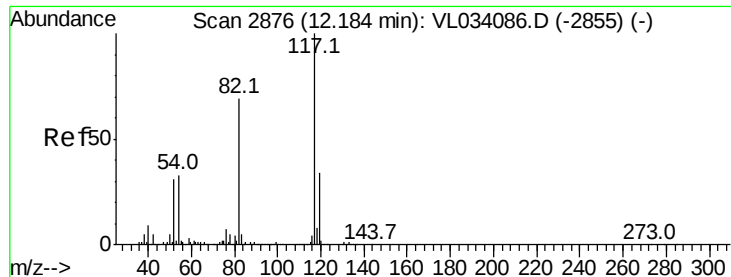
Tgt Ion: 107 Resp: 1417106

Ion Ratio Lower Upper

107 100

109 92.3 72.9 109.3





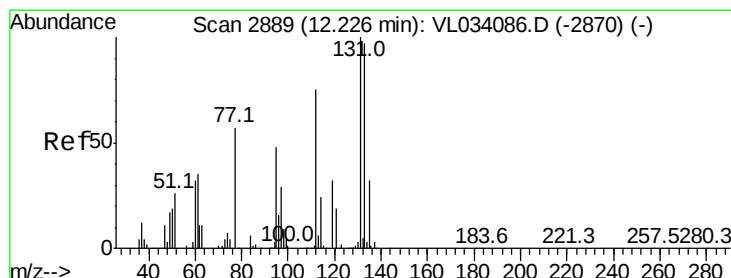
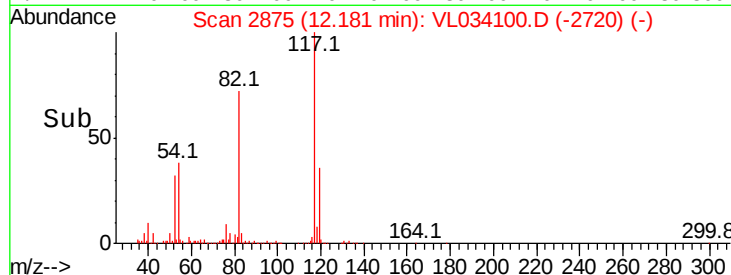
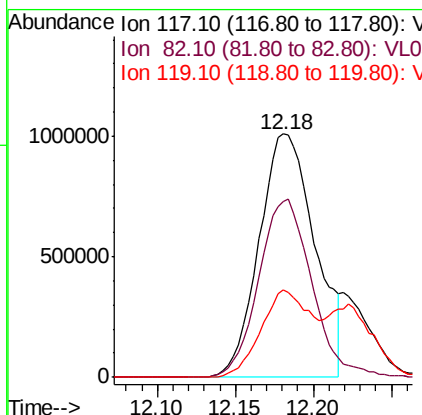
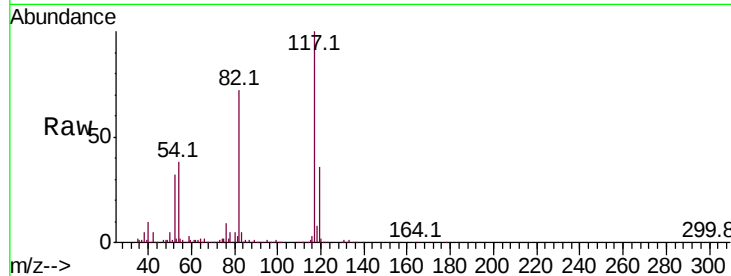
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2875
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 2530262
Ion Ratio Lower Upper
117 100
82 69.9 52.2 78.4
119 56.1 44.8 67.2

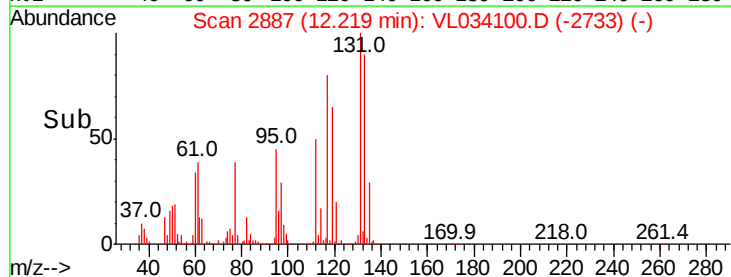
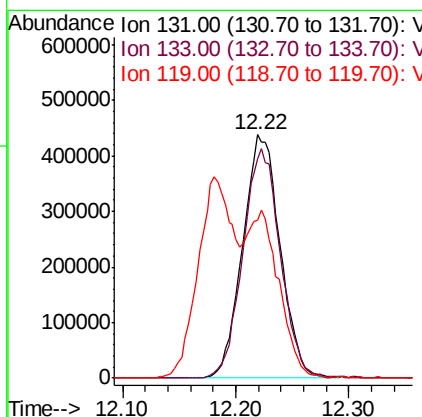
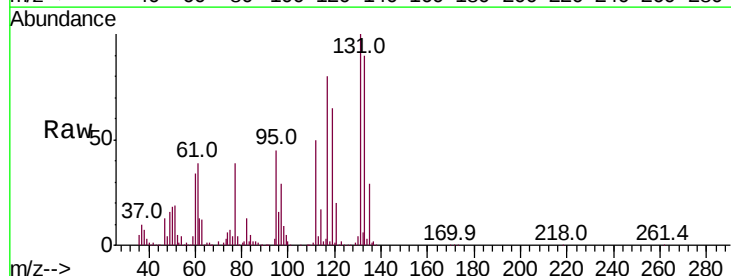
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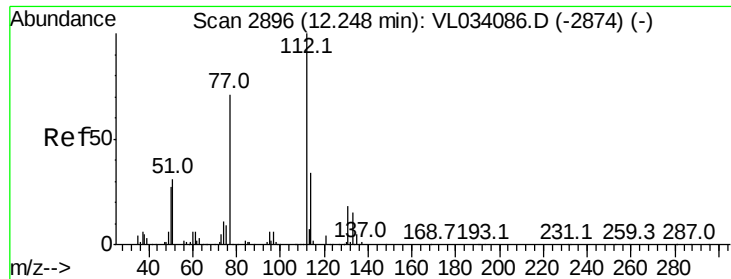
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.700 ppbv
RT: 12.22 min Scan# 2887
Delta R.T. -0.01 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion:131 Resp: 1006449
Ion Ratio Lower Upper
131 100
133 94.6 76.5 114.7
119 57.0 114.7 172.1#





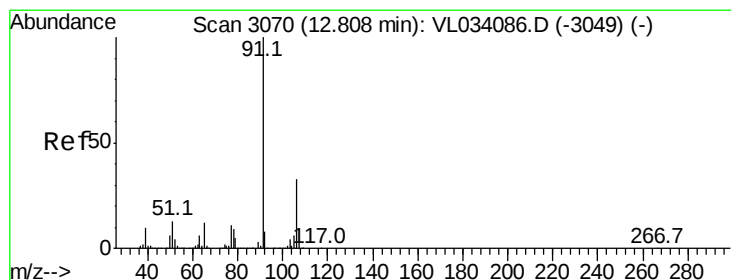
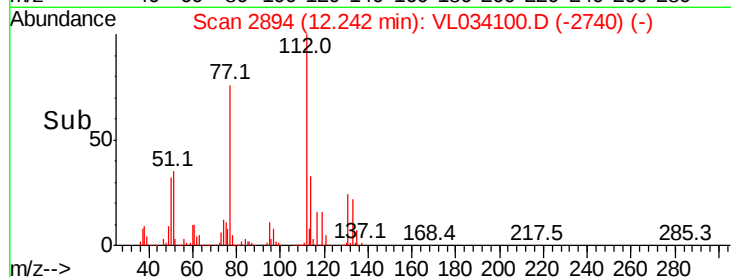
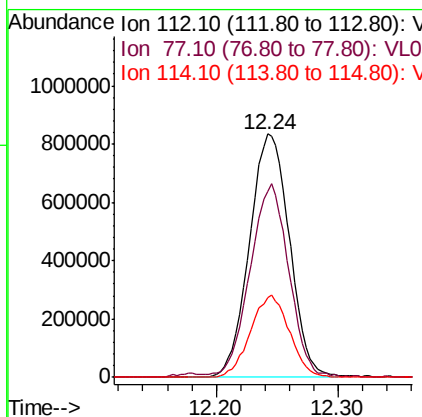
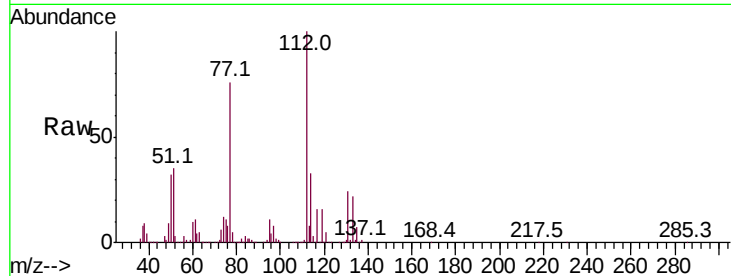
#57
Chlorobenzene
Concen: 8.293 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	75.7	57.8	86.6
114	32.7	30.3	37.1

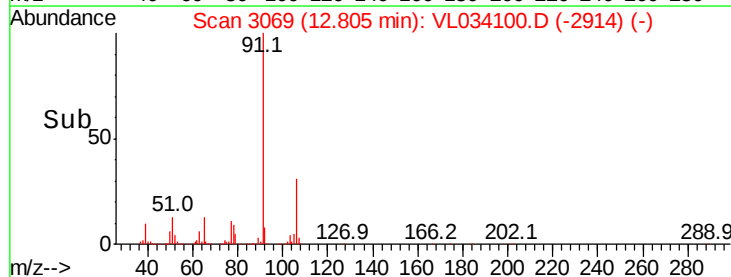
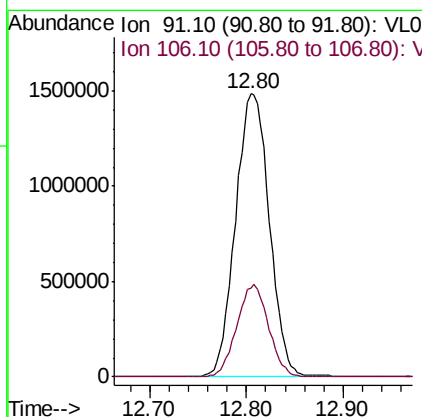
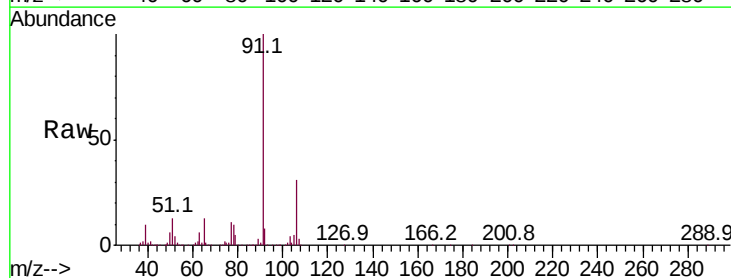
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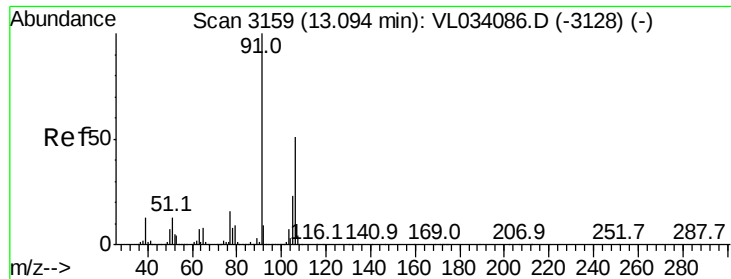
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#58
Ethyl Benzene
Concen: 8.477 ppbv
RT: 12.80 min Scan# 3069
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	26.0	39.0





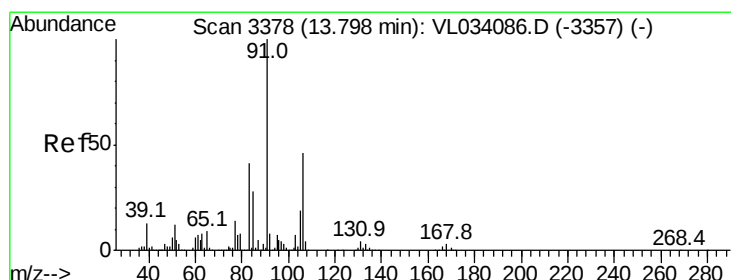
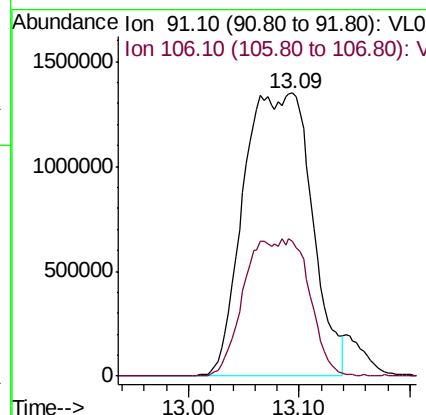
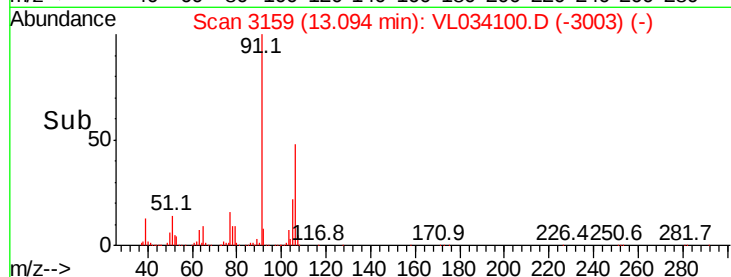
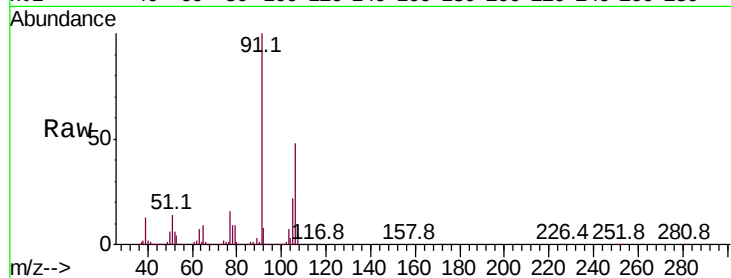
#59
m/p-Xylene
Concen: 16.886 ppbv m
RT: 13.09 min Scan# 3159
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 5767055
Ion Ratio Lower Upper
91 100
106 46.0 38.7 58.1

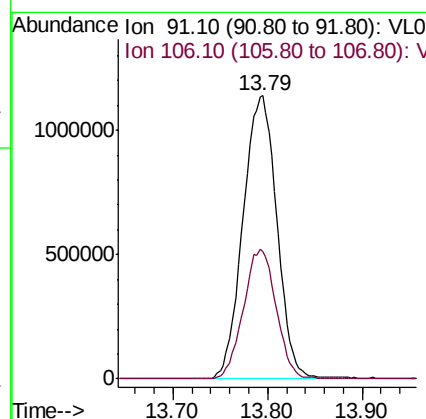
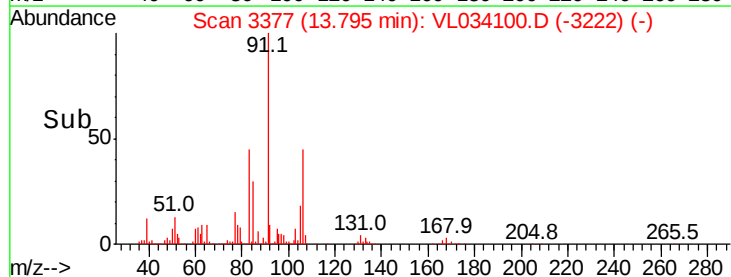
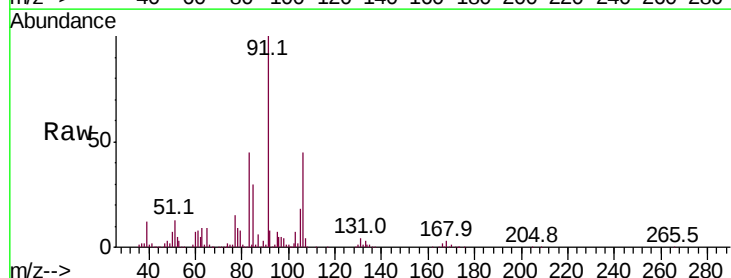
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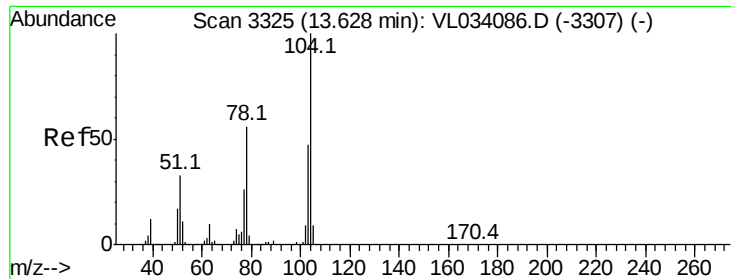
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#60
o-Xylene
Concen: 8.299 ppbv
RT: 13.79 min Scan# 3377
Delta R.T. -0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt Ion: 91 Resp: 2832515
Ion Ratio Lower Upper
91 100
106 44.6 22.6 67.7





#61

Stvrene

Concen: 8.605 ppbv

RT: 13.63 min Scan# 3325

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2331101

Ion Ratio Lower Upper

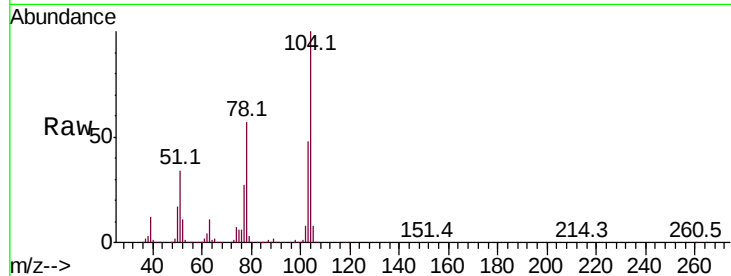
104 100

78 56.7 44.2 66.4

103 47.6 38.3 57.5

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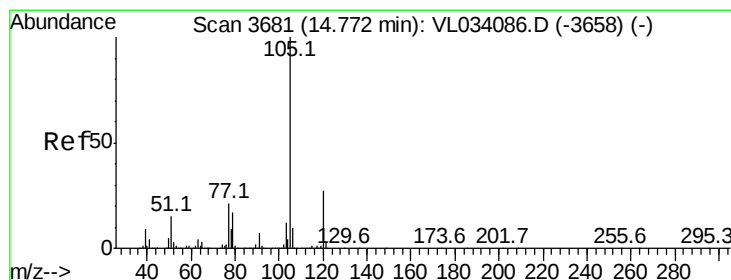
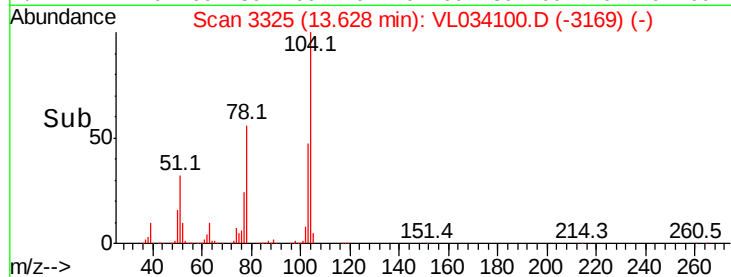
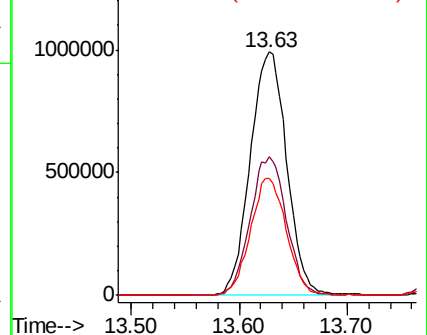
MMDadoda
8/16/2019 8:54:12 AM



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: 8.079 ppbv

RT: 14.77 min Scan# 3679

Delta R.T. -0.01 min

Lab File: VL034100.D

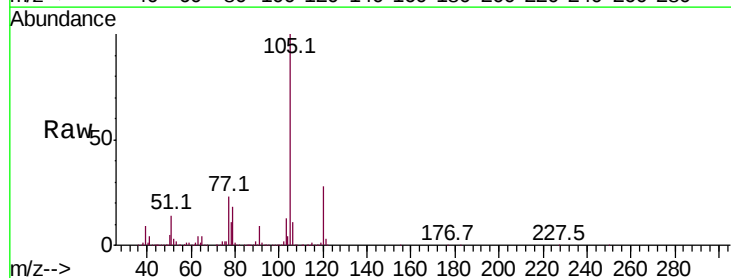
Acq: 12 Aug 2019 10:32

Tgt Ion:105 Resp: 3701079

Ion Ratio Lower Upper

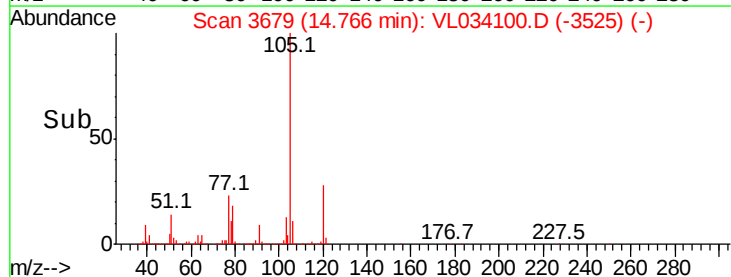
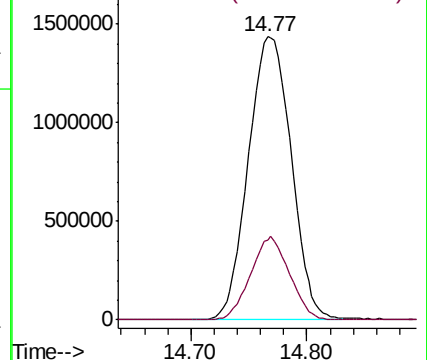
105 100

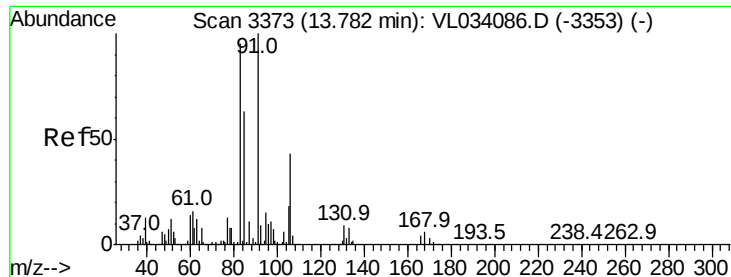
120 26.7 21.4 32.2



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: 8.206 ppbv

RT: 13.78 min Scan# 3372

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2023181

Ion Ratio Lower Upper

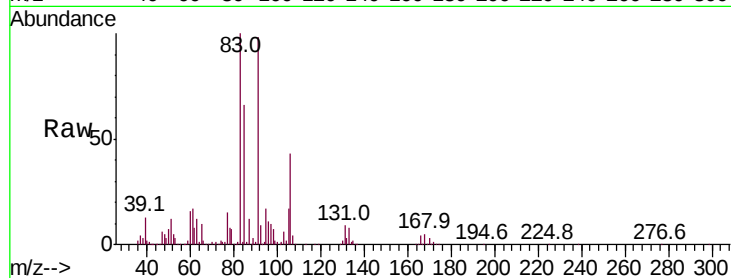
83 100

131 8.7 4.6 13.8

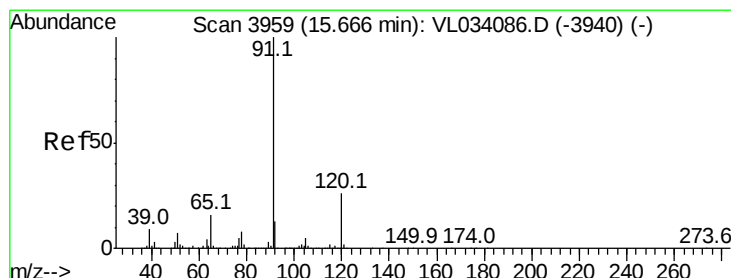
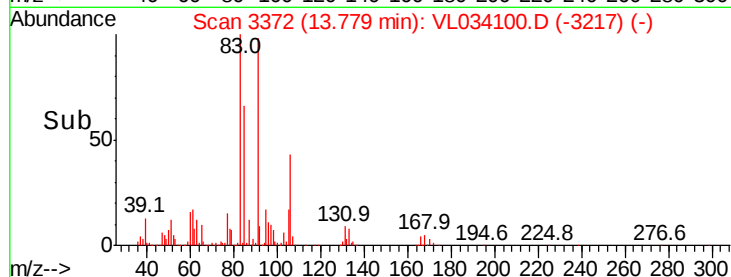
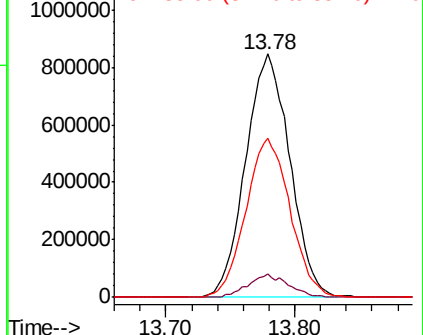
85 65.5 32.6 97.8

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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.132 ppbv

RT: 15.66 min Scan# 3958

Delta R.T. -0.00 min

Lab File: VL034100.D

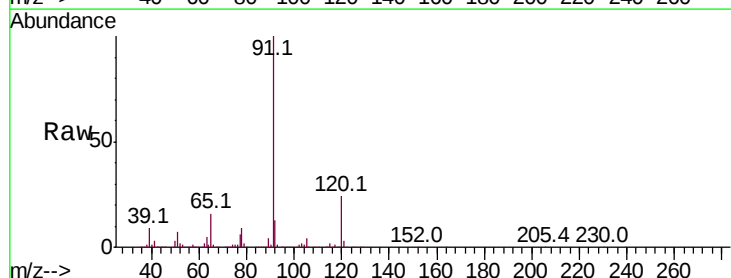
Acq: 12 Aug 2019 10:32

Tgt Ion:120 Resp: 984722

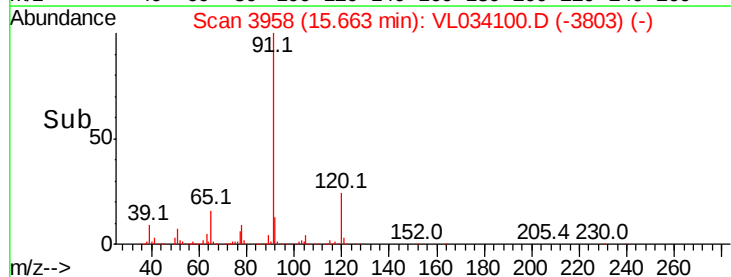
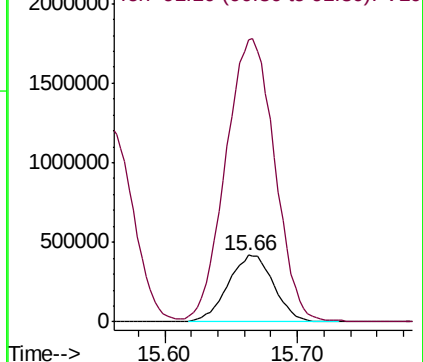
Ion Ratio Lower Upper

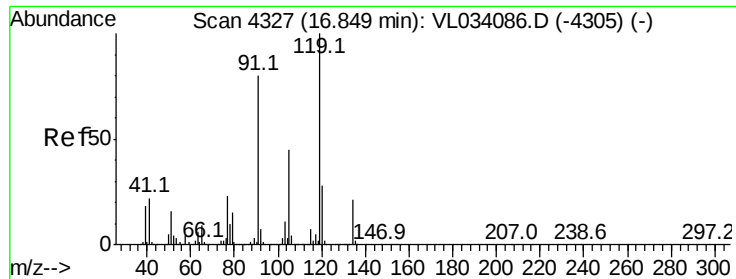
120 100

91 464.9 359.7 539.5



Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0





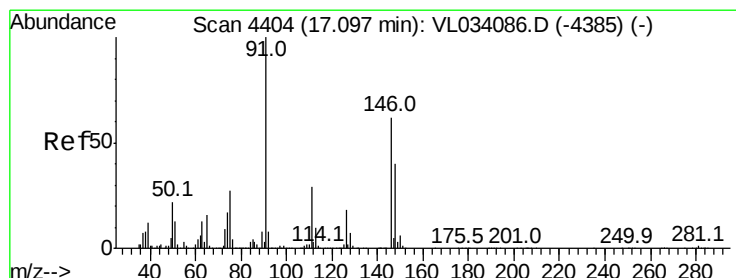
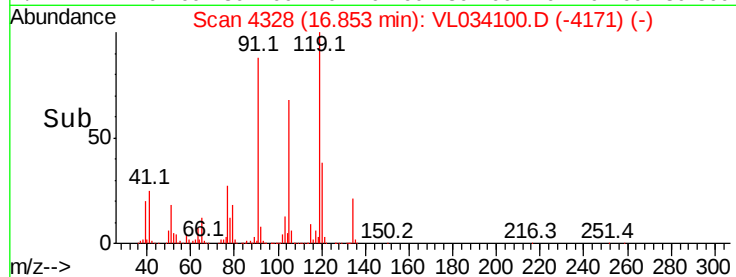
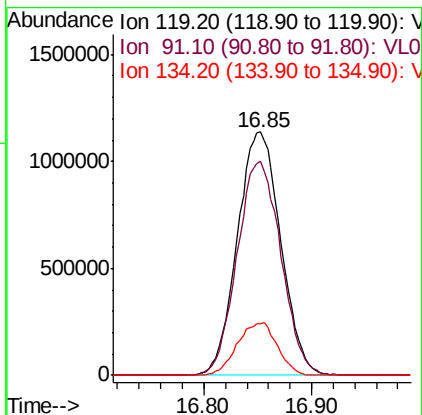
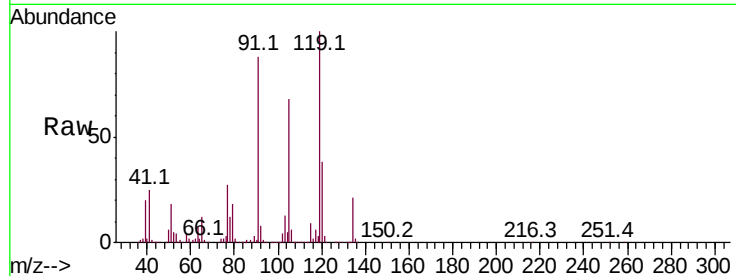
#65
 tert-Butylbenzene
 Concen: 7.805 ppbv
 RT: 16.85 min Scan# 4328
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	88.8	67.6	101.4
134	20.0	16.0	24.0

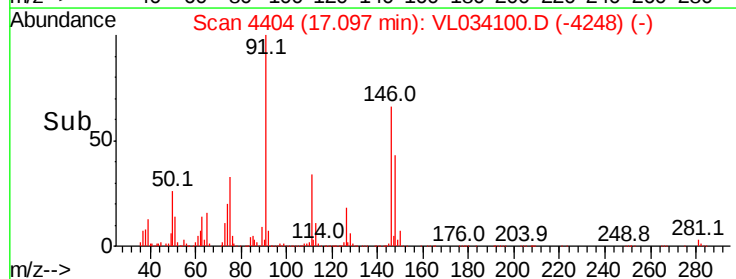
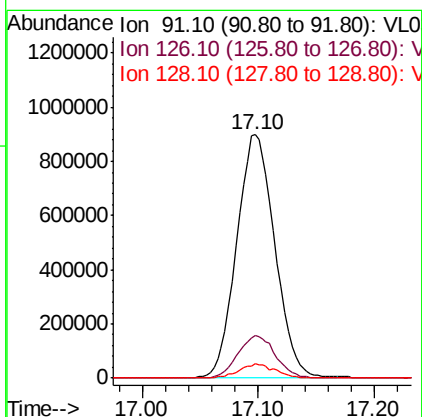
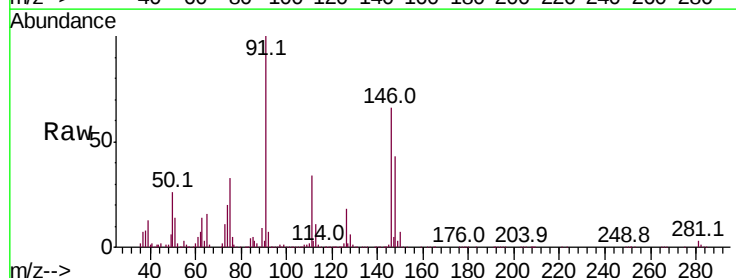
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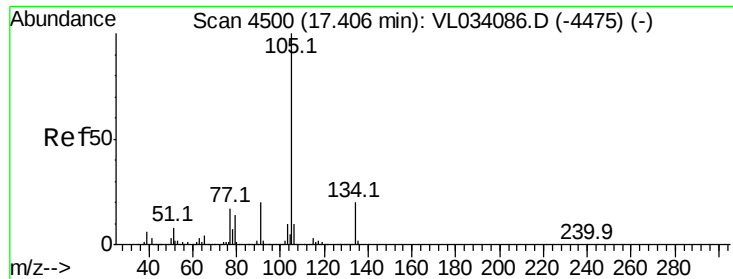
MMDadoda
 8/16/2019 8:54:12 AM



#66
 Benzyl Chloride
 Concen: 9.082 ppbv
 RT: 17.10 min Scan# 4404
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.2	14.8	22.2
128	5.6	4.8	7.2





#67

sec-Butylbenzene

Concen: 7.790 ppbv

RT: 17.40 min Scan# 4499

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4486540

Ion Ratio Lower Upper

105 100

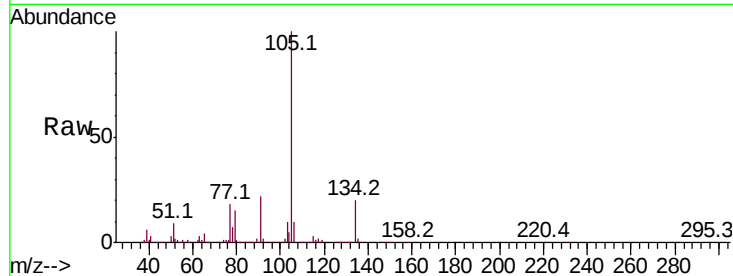
134 18.7 15.4 23.2

Manual Integrations

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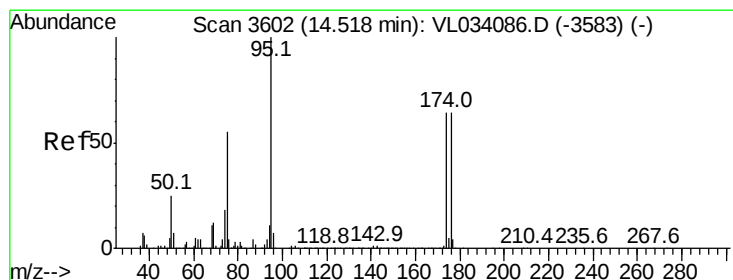
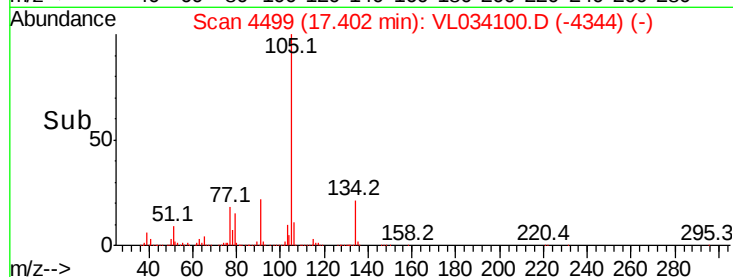
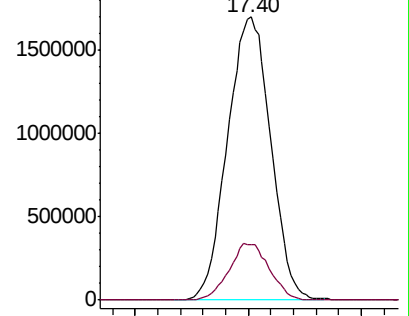
MMDadoda

8/16/2019 8:54:12 AM



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: 9.896 ppbv

RT: 14.52 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

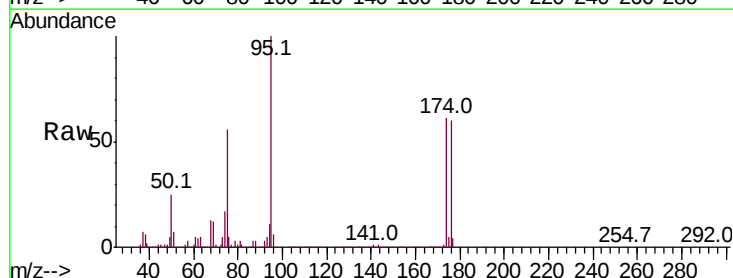
Tgt Ion: 95 Resp: 2031584

Ion Ratio Lower Upper

95 100

174 64.0 53.0 79.6

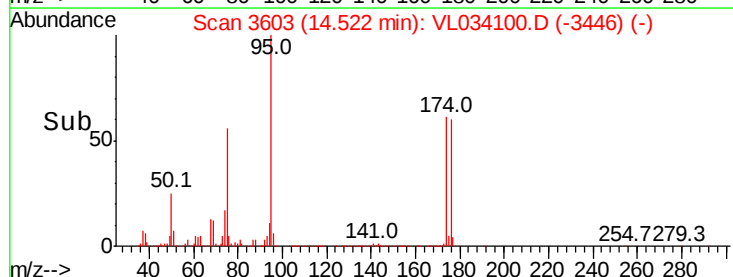
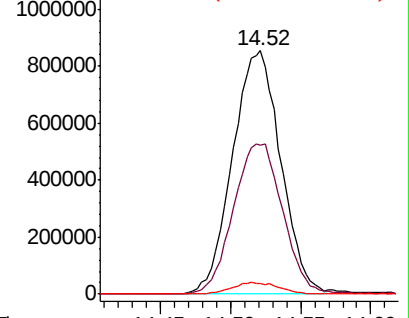
175 4.7 4.2 6.2

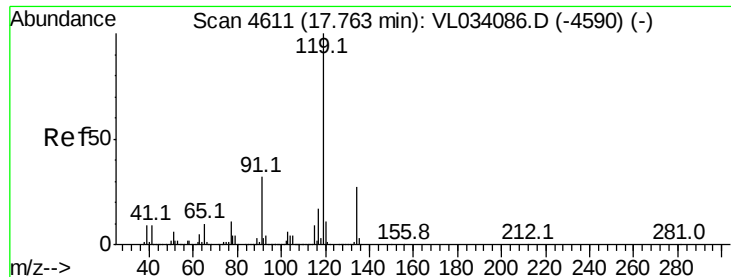


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





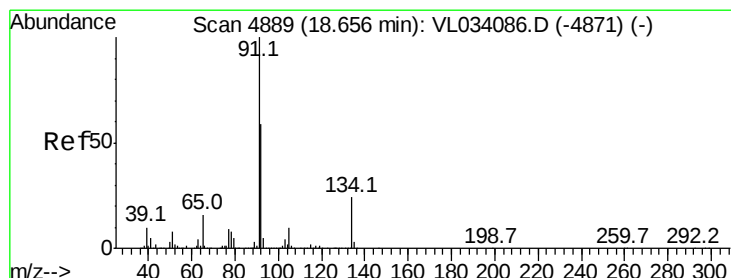
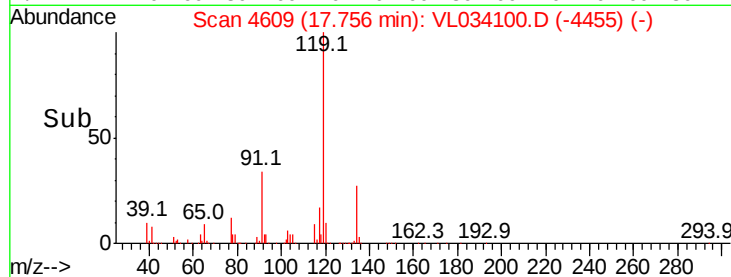
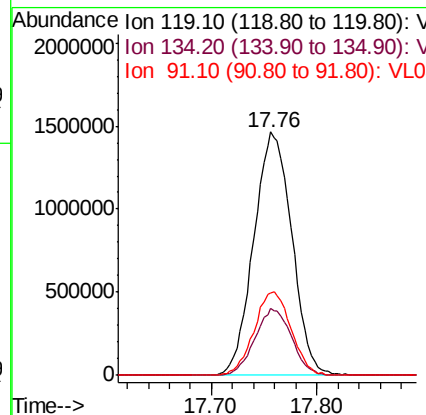
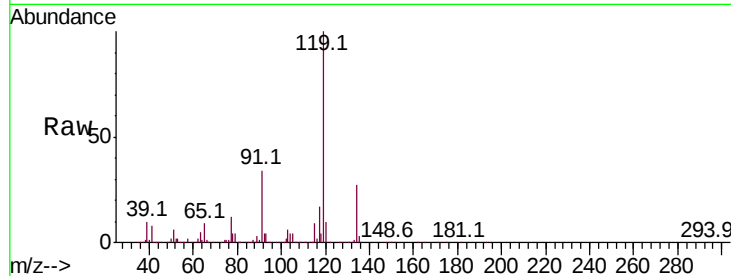
#69
 p-Isopropyltoluene
 Concen: 7.743 ppbv
 RT: 17.76 min Scan# 4609
 Delta R.T. -0.01 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.5	21.3	31.9
91	33.3	25.4	38.0

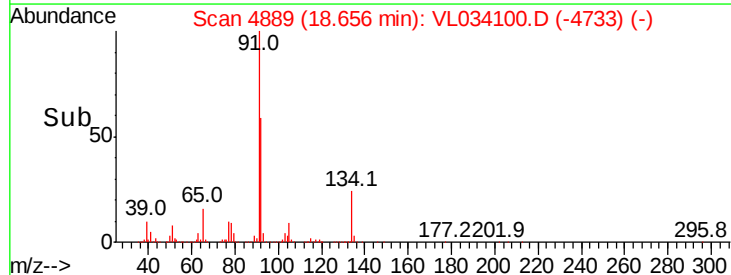
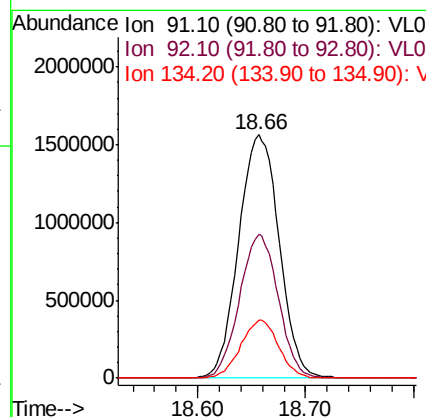
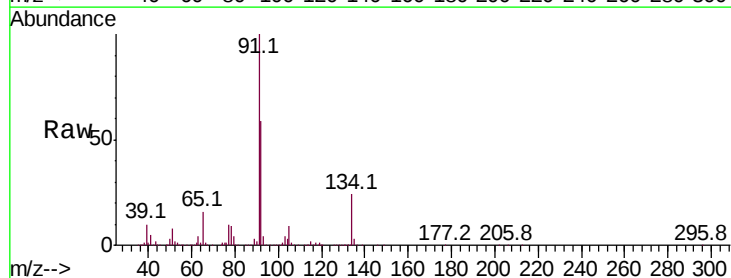
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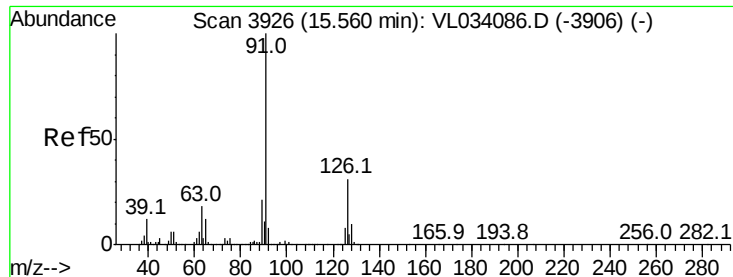
MMDadoda
 8/16/2019 8:54:12 AM



#70
 n-Butylbenzene
 Concen: 7.953 ppbv
 RT: 18.66 min Scan# 4889
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.8	45.9	68.9
134	22.5	19.0	28.4





#71

2-Chlorotoluene

Concen: 8.269 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3046051

Ion Ratio Lower Upper

91 100

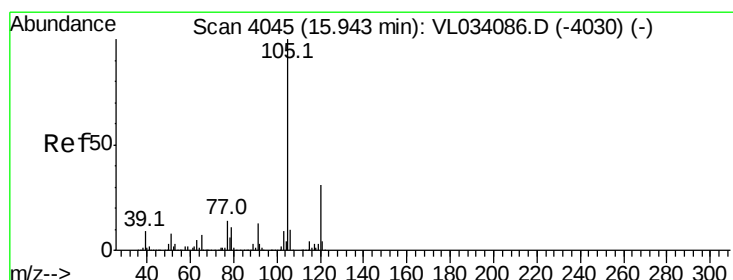
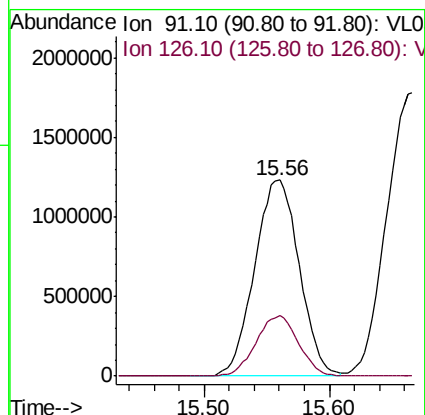
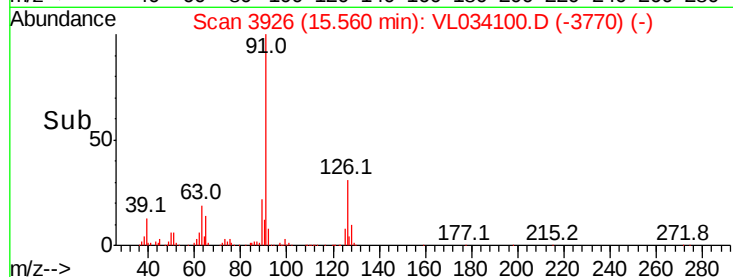
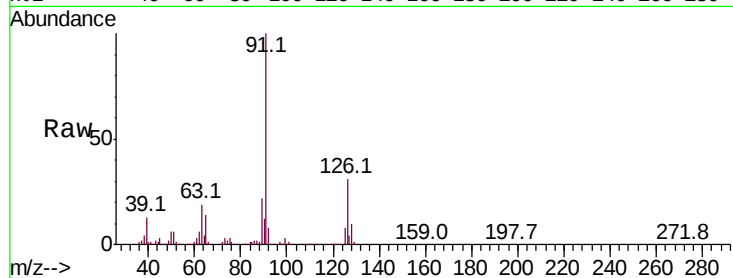
126 29.6 12.2 48.6

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#72

4-Ethyltoluene

Concen: 8.277 ppbv

RT: 15.94 min Scan# 4045

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion: 105 Resp: 3324864

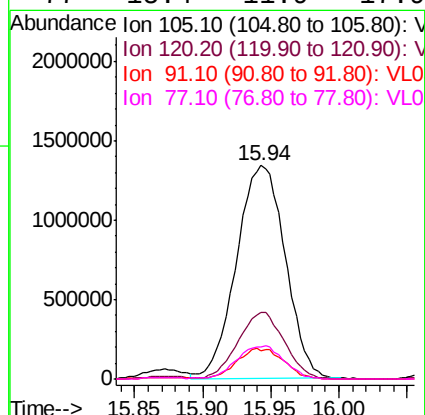
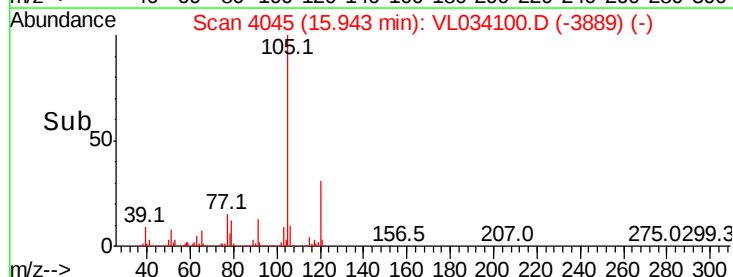
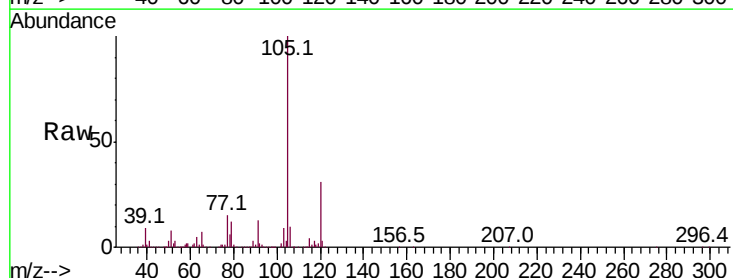
Ion Ratio Lower Upper

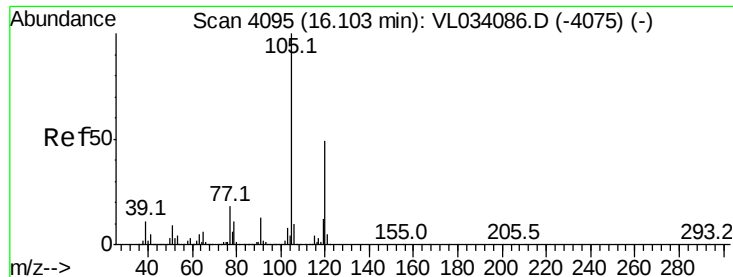
105 100

120 30.0 24.2 36.2

91 13.8 10.5 15.7

77 15.4 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 8.234 ppbv

RT: 16.10 min Scan# 4093

Delta R.T. -0.01 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3181981

Ion Ratio Lower Upper

105 100

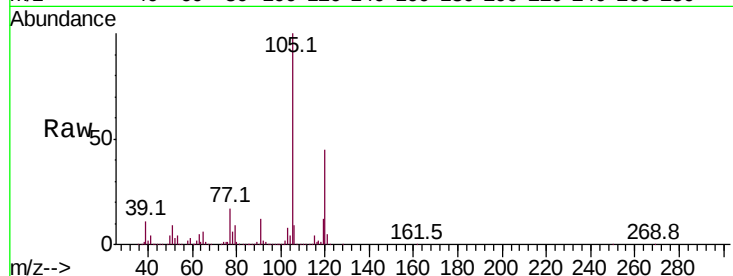
120 45.5 39.0 58.4

Manual Integrations

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8/16/2019 8:54:12 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.10

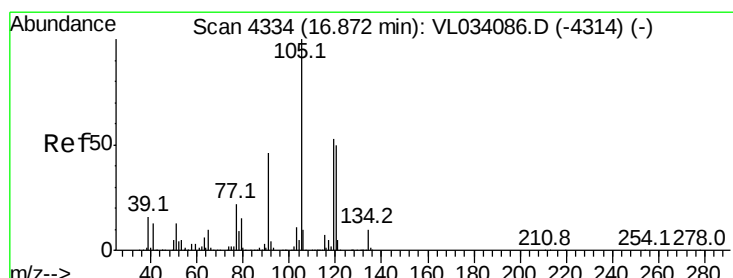
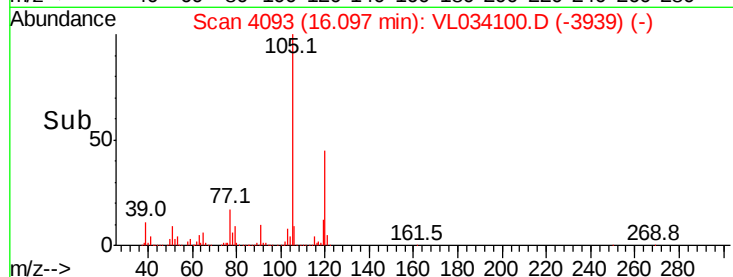
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.812 ppbv

RT: 16.87 min Scan# 4334

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Tgt Ion:105 Resp: 3140377

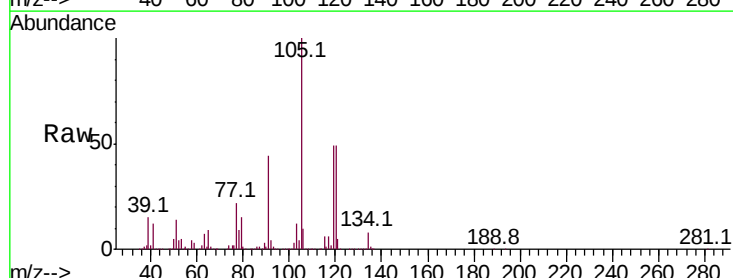
Ion Ratio Lower Upper

105 100

120 48.8 40.2 60.4

91 43.7 38.1 57.1

77 22.2 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

2000000

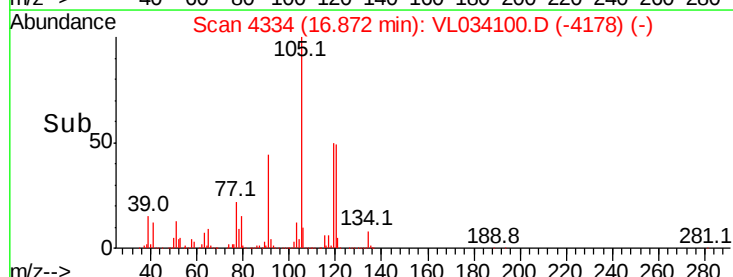
1500000

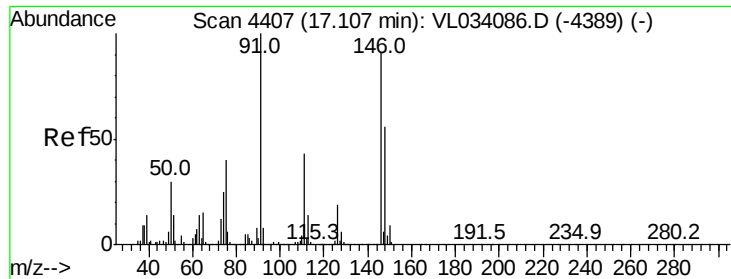
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 7.943 ppbv

RT: 17.11 min Scan# 4407

Delta R.T. 0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1788389

Ion Ratio Lower Upper

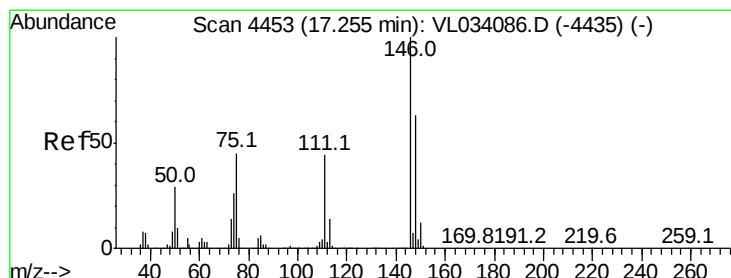
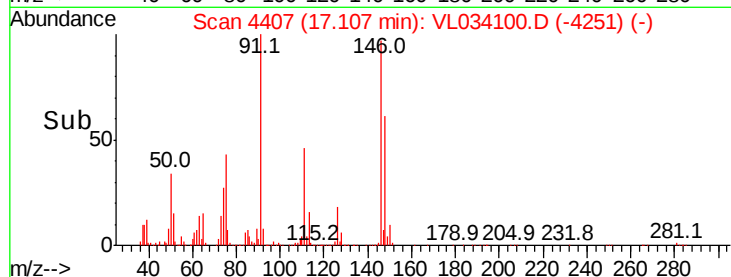
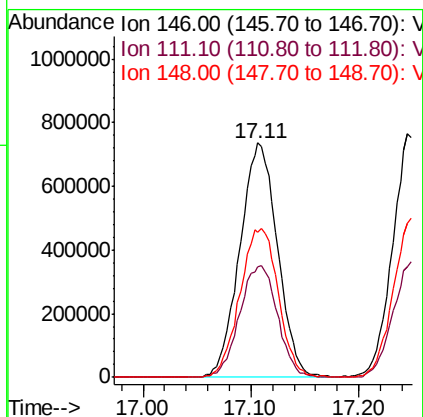
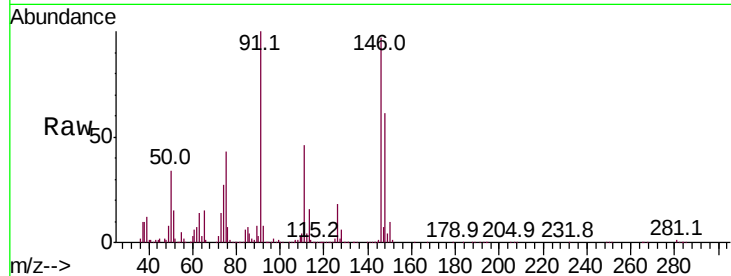
146 100

111 48.0 23.8 71.5

148 64.8 32.4 97.2

Manual Integrations
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8/16/2019 8:54:12 AM



#76

1,4-Dichlorobenzene

Concen: 7.971 ppbv

RT: 17.25 min Scan# 4452

Delta R.T. -0.00 min

Lab File: VL034100.D

Acq: 12 Aug 2019 10:32

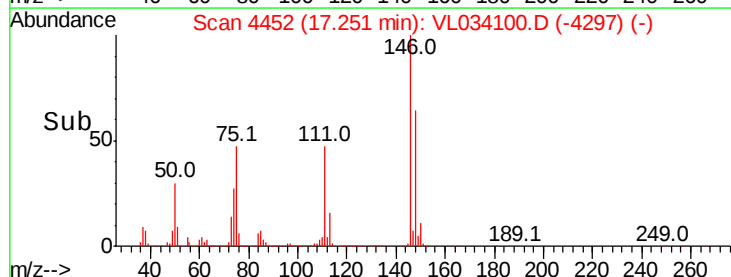
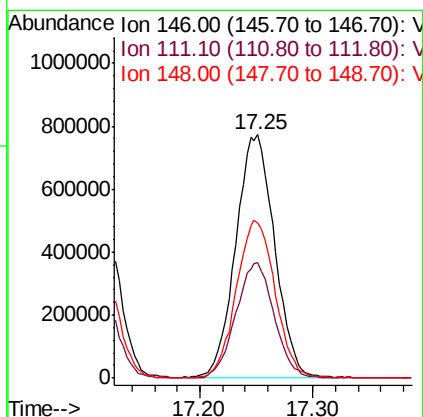
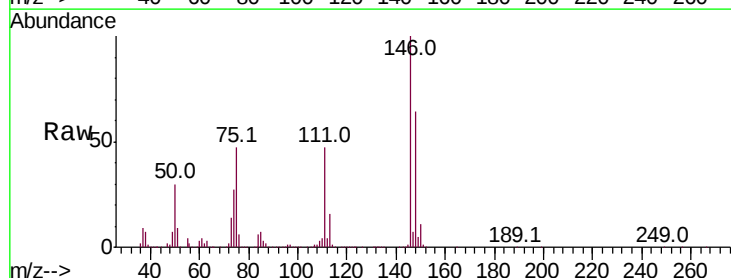
Tgt Ion:146 Resp: 1833790

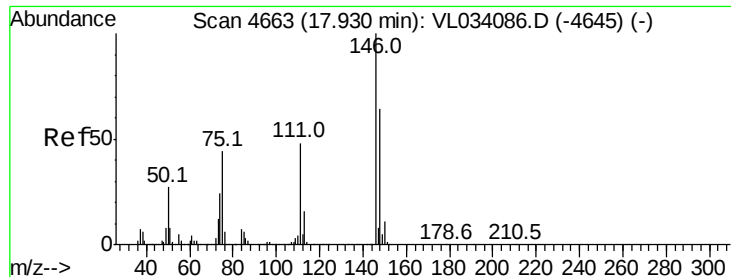
Ion Ratio Lower Upper

146 100

111 47.0 23.2 69.5

148 65.4 32.1 96.5





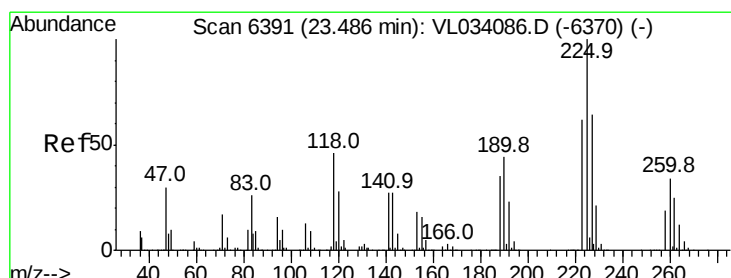
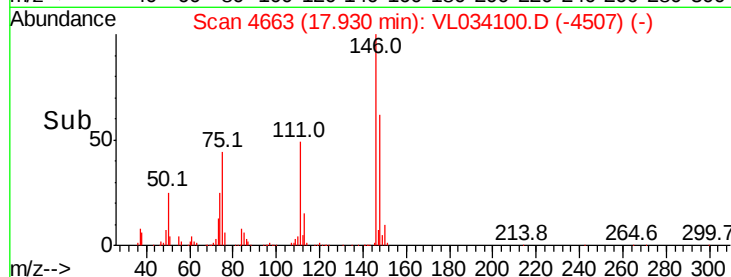
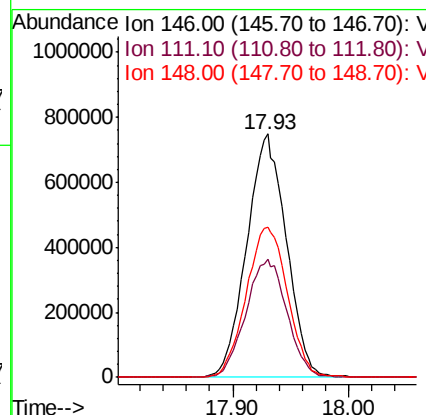
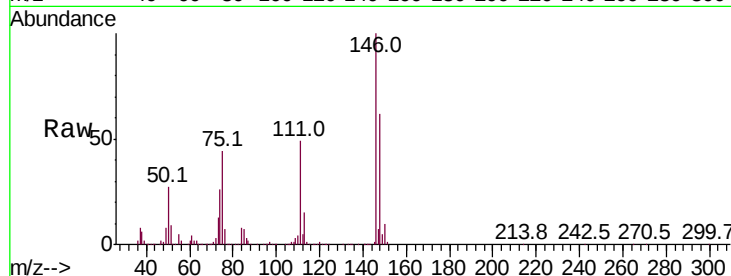
#77
 1,2-Dichlorobenzene
 Concen: 7.979 ppbv
 RT: 17.93 min Scan# 4663
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.3	24.0	72.0
148	64.8	31.9	95.7

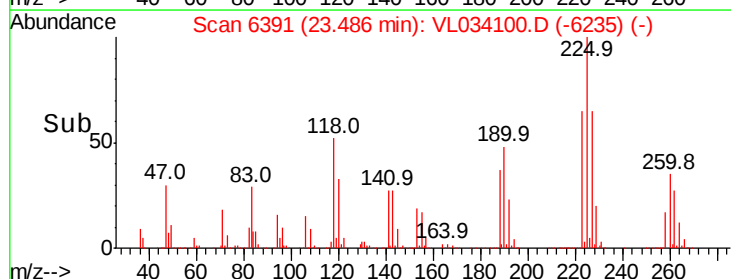
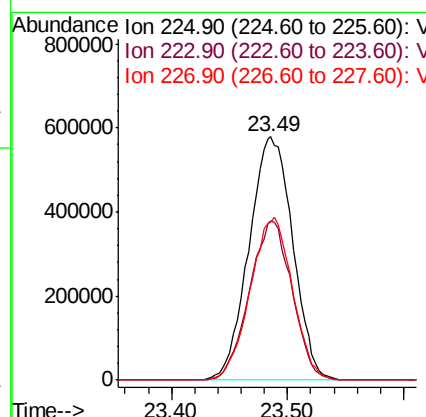
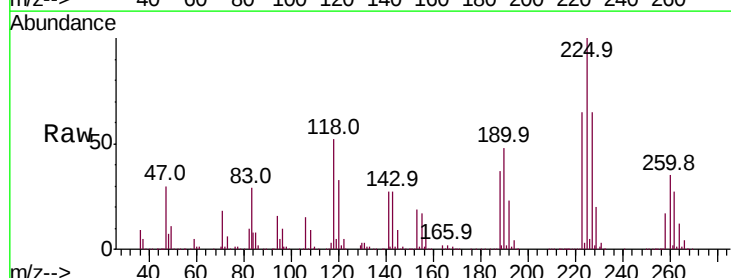
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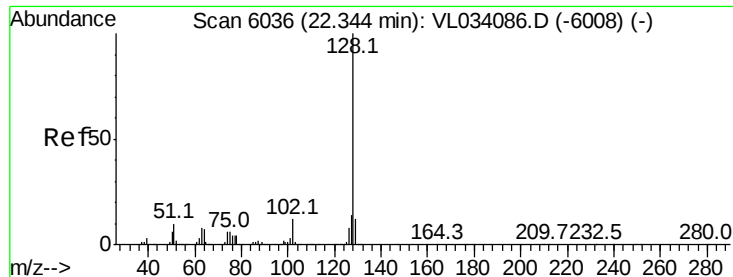
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.609 ppbv
 RT: 23.49 min Scan# 6391
 Delta R.T. 0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.8	76.2
227	64.7	52.2	78.2





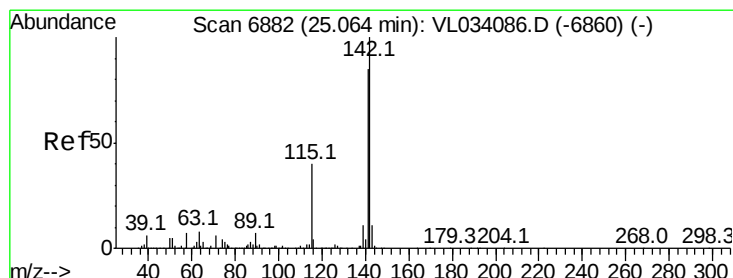
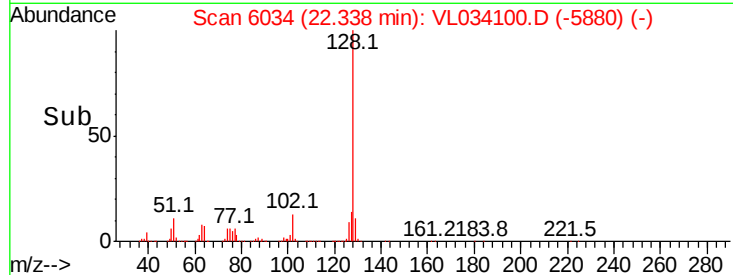
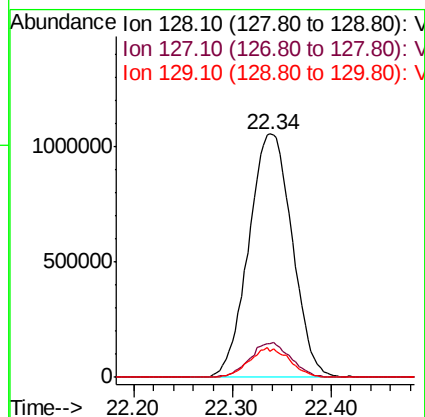
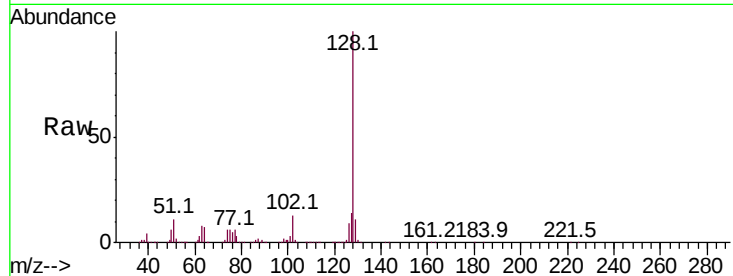
#79
Naphthalene
Concen: 7.696 ppbv
RT: 22.34 min Scan# 6034
Delta R.T. -0.01 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:128	Resp: 3212869
Ion Ratio	Lower Upper
128 100	
127 13.8	11.0 16.6
129 10.9	9.2 13.8

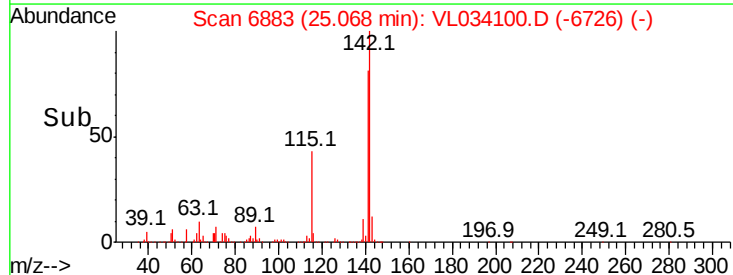
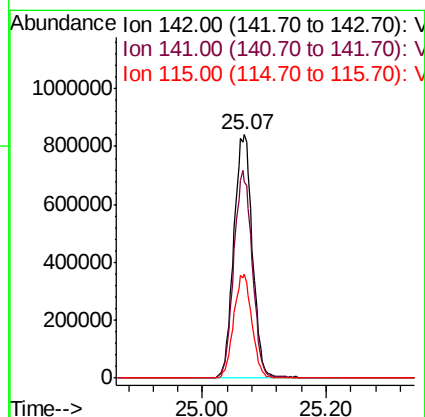
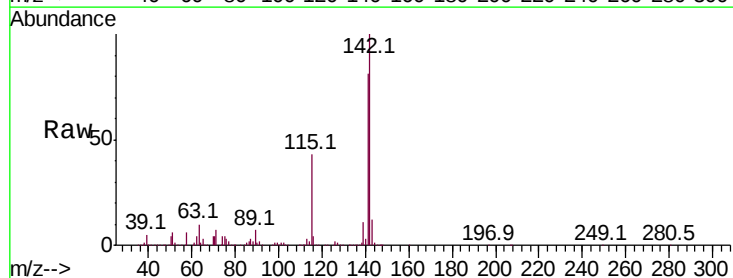
Manual Integrations
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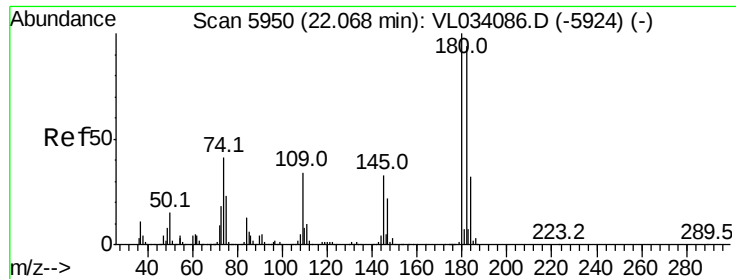
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#80
Naphthalene, 2-methyl-
Concen: 13.453 ppbv
RT: 25.07 min Scan# 6883
Delta R.T. 0.00 min
Lab File: VL034100.D
Acq: 12 Aug 2019 10:32

Tgt	Ion:142	Resp: 1761333	
Ion	Ratio	Lower	Upper
142	100		
141	84.0	66.1	99.1
115	41.5	30.8	46.2





#81
 1,2,4-Trichlorobenzene
 Concen: 7.509 ppbv
 RT: 22.06 min Scan# 5949
 Delta R.T. -0.00 min
 Lab File: VL034100.D
 Acq: 12 Aug 2019 10:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.7	115.1
184	31.3	25.0	37.4

Manual Integrations
 APPROVED

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