

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
 Data File : VL034207.D
 Acq On : 2 Oct 2019 11:53
 Operator : SY/AP
 Sample : VL1002ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Manual Integrations
 APPROVED

MMDadoda
 10/7/2019 12:29:14 PM

Quant Time: Oct 03 06:01:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1088805	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1879563	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1981469	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1721721	10.00	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1323088	8.227 ppbv	98
3) Chlorodifluoromethane	2.97	51	1267001	9.925 ppbv	100
4) Chloromethane	3.12	50	771208	10.280 ppbv	100
5) Vinyl Chloride	3.24	62	674023	9.831 ppbv	97
6) Bromomethane	3.46	94	322331	10.077 ppbv	96
7) Chloroethane	3.55	64	242684	10.127 ppbv	96
8) Dichlorotetrafluoroethane	3.17	85	1400553	9.867 ppbv	99
9) Propene	2.99	41	627793	9.967 ppbv	100
10) Heptane	8.17	43	1644044	10.015 ppbv	100
11) Trichlorofluoromethane	3.95	101	1480329	10.112 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	976263	10.190 ppbv	100
13) Ethanol	3.60	45	127493	8.359 ppbv	99
14) Bromoethene	3.74	108	409304	10.449 ppbv	98
15) Acetone	3.84	43	1293616	8.865 ppbv	99
16) 1,3-Butadiene	3.31	39	671064	10.537 ppbv	99
17) tert-Butyl alcohol	4.30	59	1092904	11.820 ppbv	99
18) 1,1-Dichloroethene	4.29	96	443875	10.622 ppbv	90
19) Isopropyl Alcohol	3.97	45	972312	10.835 ppbv	100
20) Methylene Chloride	4.35	84	402932	9.577 ppbv	95
21) Allyl Chloride	4.42	41	886780	10.759 ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	431614	10.324 ppbv	99
23) Vinyl Acetate	5.09	43	2158254	10.036 ppbv	99
24) 1,1-Dichloroethane	5.03	63	1430733	9.881 ppbv	98
25) Ethyl Acetate	5.70	43	2645380	9.586 ppbv	99
26) Hexane	5.71	57	1120360	9.760 ppbv	100
27) Carbon Disulfide	4.56	76	1205229	11.384 ppbv	98
28) Methyl tert-Butyl Ether	5.05	73	1745836	10.240 ppbv	100
29) Chloroform	5.78	83	1630307	9.939 ppbv	99
30) Cyclohexane	7.18	84	850600	10.264 ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1179564	10.080 ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1582375	10.003 ppbv	99
34) 2-Butanone	5.27	43	1839533	9.585 ppbv	100
35) Carbon Tetrachloride	7.07	117	1549626	9.924 ppbv	99
36) Benzene	6.94	78	2017689	9.720 ppbv	99
37) 1,2-Dichloroethane	6.34	62	1486154	10.065 ppbv	100
38) Trichloroethene	7.89	130	686412	9.254 ppbv	98
39) 1,2-Dichloropropane	7.66	63	896523	9.612 ppbv	98
40) 1,4-Dioxane	7.88	88	302194m	10.012 ppbv	
41) Tetrahydrofuran	6.08	42	1095890	10.139 ppbv	99
42) Bromodichloromethane	7.84	83	1800615	10.162 ppbv	99
43) Methyl Methacrylate	8.06	69	892786	10.411 ppbv	100

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Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

MMDadoda
 10/7/2019 12:29:14 PM

Quant Time: Oct 03 06:01:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3804795	9.521	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1188092	11.718	ppbv	96
46) cis-1,3-Dichloropropene	8.76	75	1324078	10.856	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	826427m	9.868	ppbv	
48) Dibromochloromethane	10.38	129	1355140	10.209	ppbv	99
49) Bromoform	13.12	173	1114540	10.375	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2693828	9.645	ppbv	99
51) 2-Hexanone	10.19	43	2296340	9.797	ppbv #	99
52) Tetrachloroethene	11.30	164	618502	9.018	ppbv	97
53) Toluene	9.87	91	2232139	9.839	ppbv	100
54) 1,2-Dibromoethane	10.68	107	1219981	9.795	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	885179	10.017	ppbv	98
57) Chlorobenzene	12.22	112	1579342	9.155	ppbv	99
58) Ethyl Benzene	12.79	91	3074018	9.615	ppbv	99
59) m/p-Xylene	13.07	91	5099667m	19.258	ppbv	
60) o-Xylene	13.77	91	2482180	9.374	ppbv	99
61) Styrene	13.61	104	1841458	9.709	ppbv	99
62) Isopropylbenzene	14.75	105	3216196	9.383	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1834120	8.447	ppbv	98
64) n-propylbenzene	15.64	120	828175	9.550	ppbv	93
65) tert-Butylbenzene	16.83	119	2734930m	9.131	ppbv	
66) Benzyl Chloride	17.08	91	1346287	12.705	ppbv	98
67) sec-Butylbenzene	17.38	105	3949033	9.221	ppbv	99
69) p-Isopropyltoluene	17.74	119	3192260	9.205	ppbv	100
70) n-Butylbenzene	18.63	91	3645840	9.028	ppbv	99
71) 2-Chlorotoluene	15.54	91	2609555	9.318	ppbv	100
72) 4-Ethyltoluene	15.92	105	2854079	9.540	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2720713	9.414	ppbv	97
74) 1,2,4-Trimethylbenzene	16.85	105	2714205	8.844	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1469596	8.926	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1492872	8.853	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1471826	8.832	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	956617	8.667	ppbv	98
79) Naphthalene	22.31	128	2450817	9.071	ppbv #	95
80) Naphthalene, 2-methyl-	25.05	142	569796	4.535	ppbv	97
81) 1,2,4-Trichlorobenzene	22.04	180	1330425	8.890	ppbv	99

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

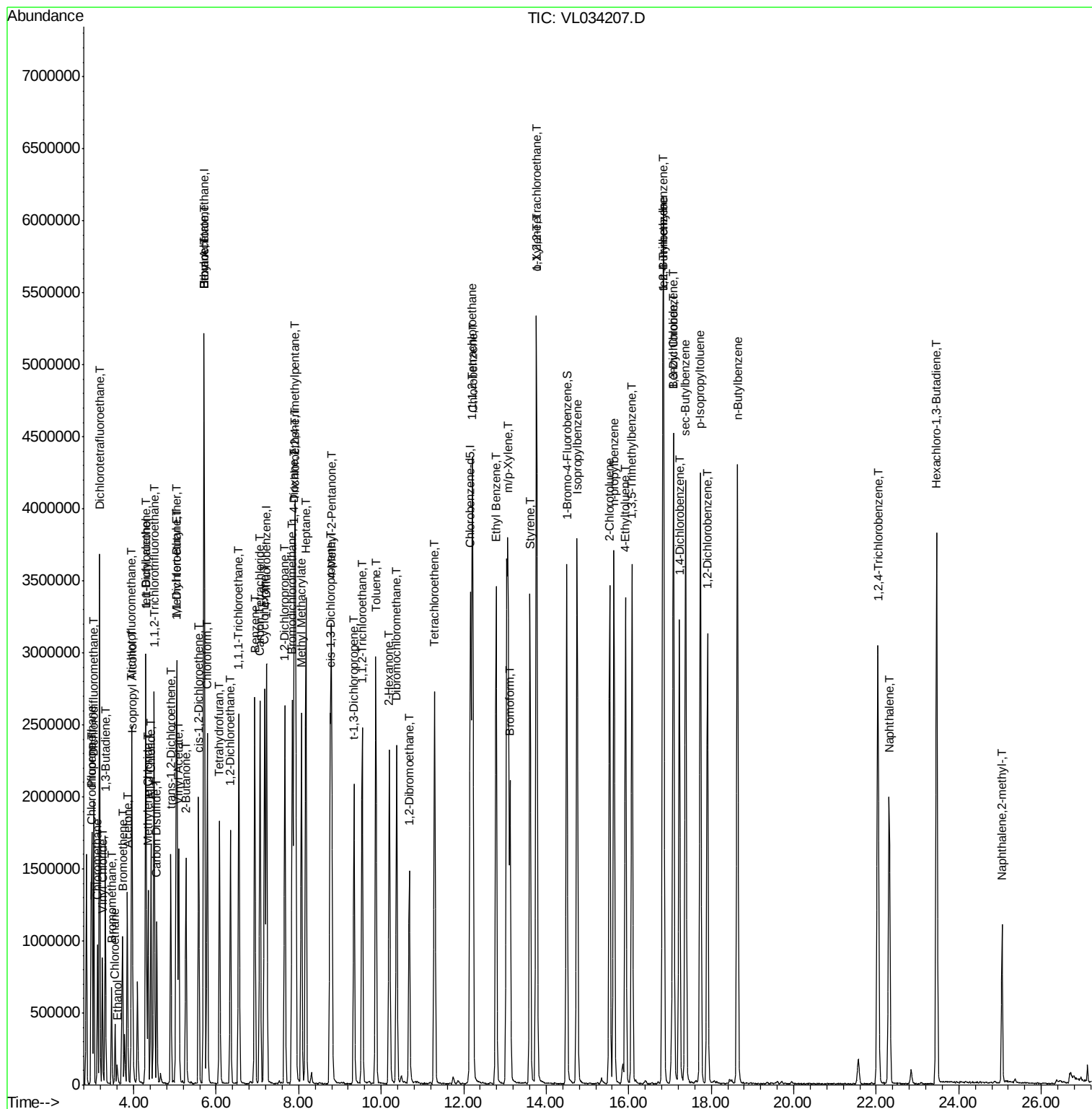
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
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Operator : SY/AP
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ALS Vial : 1 Sample Multiplier: 1

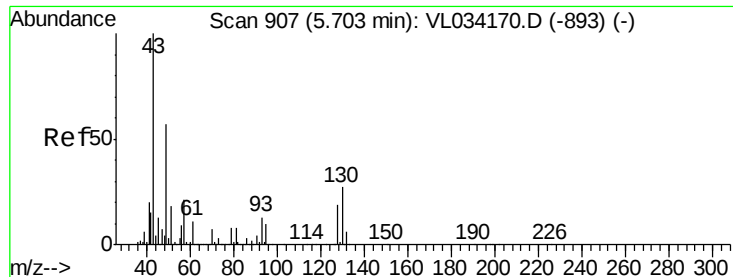
Instrument :
MSVOA_L
ClientSampled :
VL1002ABS01

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 49 Resp: 1088805

Ion Ratio Lower Upper

49 100

128 34.4 17.6 52.9

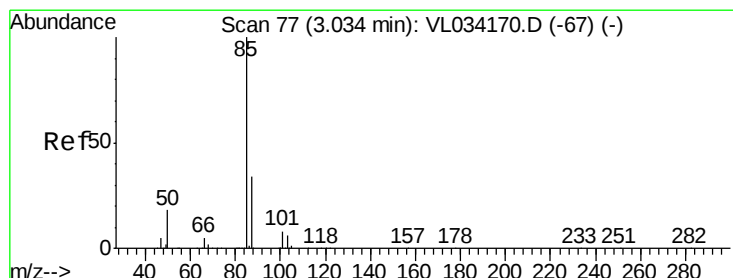
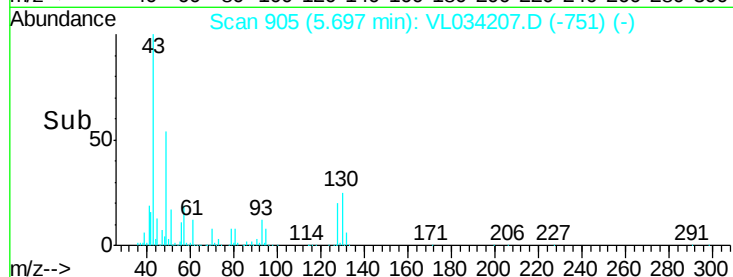
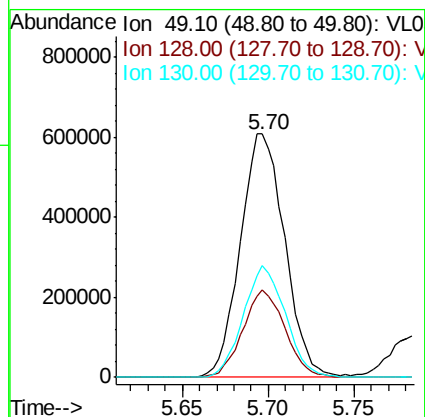
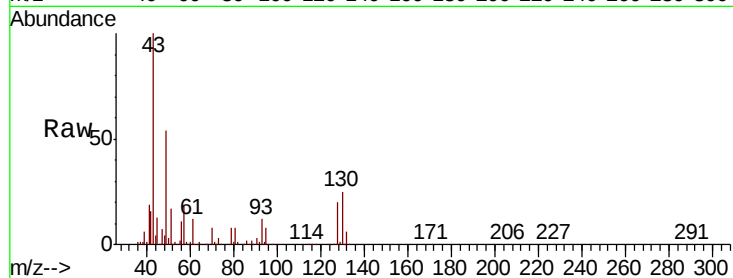
130 43.9 22.3 66.9

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 8.227 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034207.D

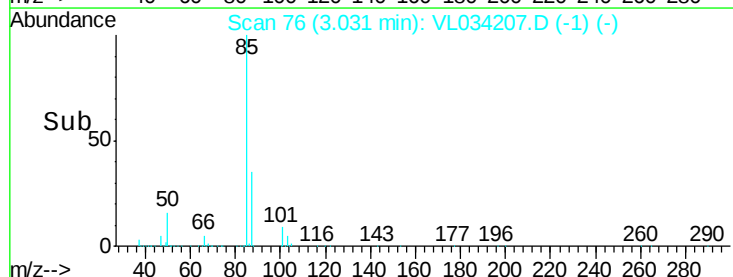
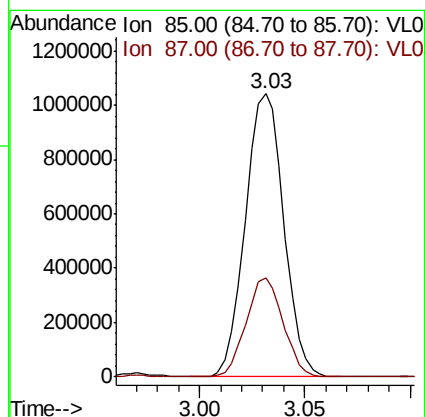
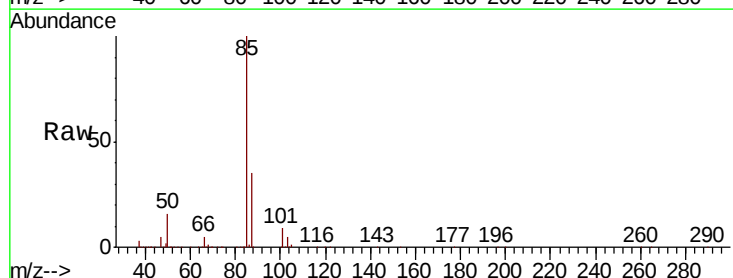
Acq: 2 Oct 2019 11:53

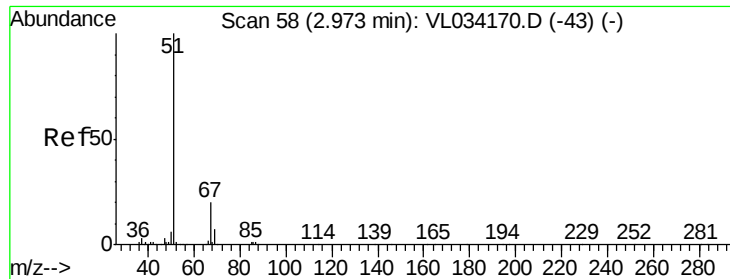
Tgt Ion: 85 Resp: 1323088

Ion Ratio Lower Upper

85 100

87 35.1 27.2 40.8





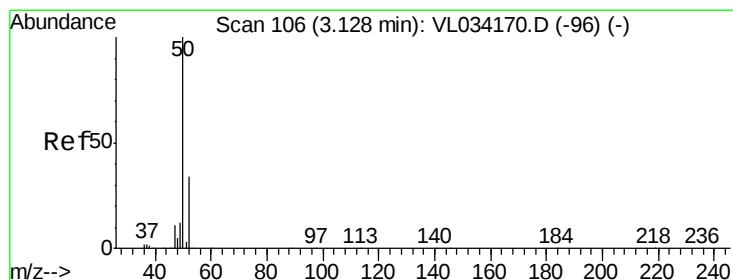
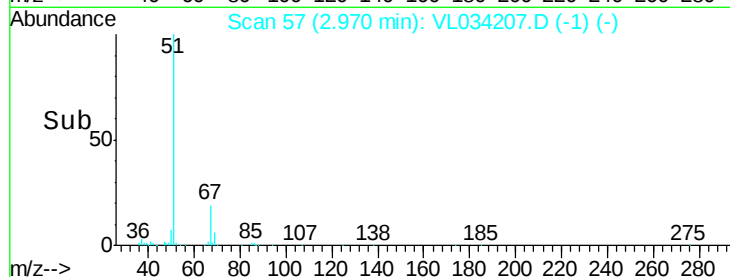
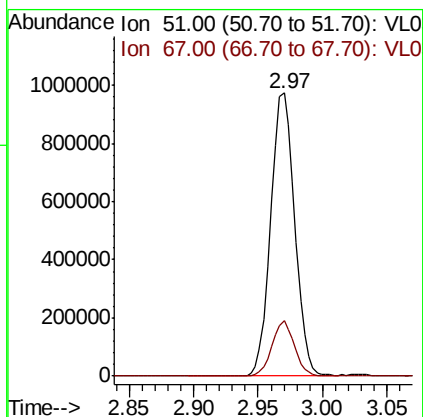
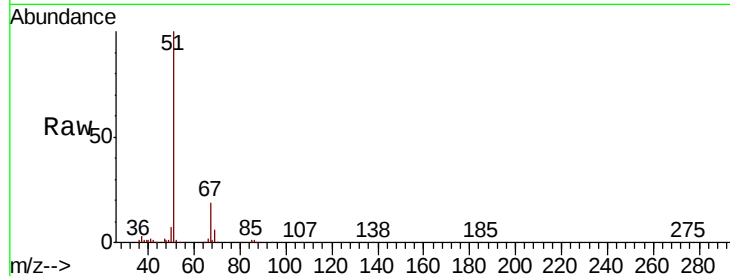
#3
Chlorodifluoromethane
Concen: 9.925 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.00 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion: 51 Resp: 1267001
Ion Ratio Lower Upper
51 100
67 18.4 14.8 22.2

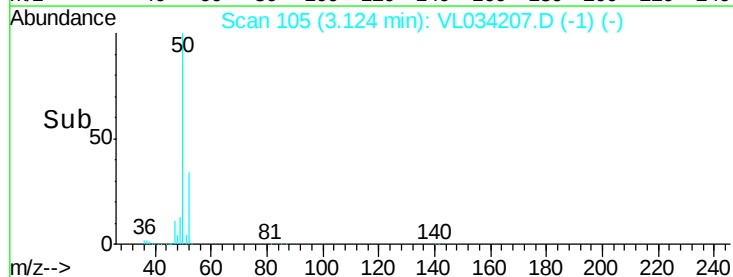
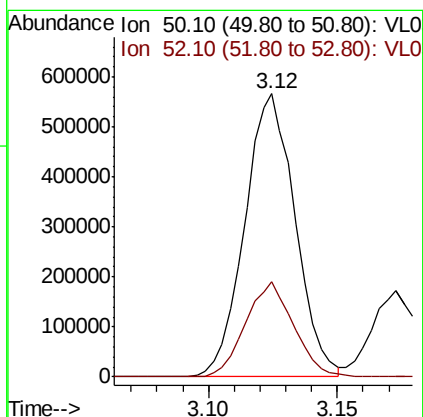
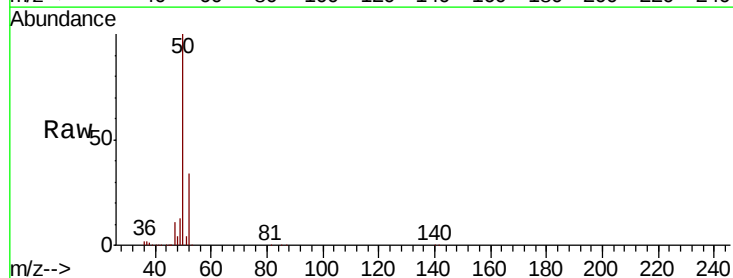
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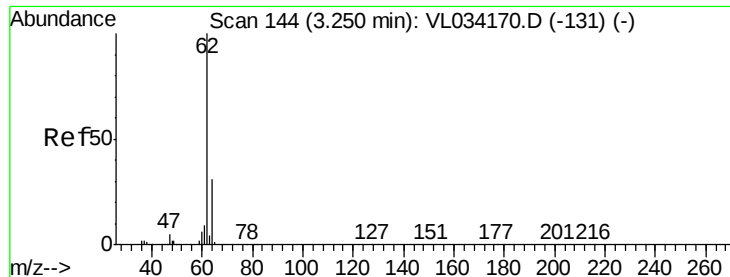
MMDadoda
10/7/2019 12:29:14 PM



#4
Chloromethane
Concen: 10.280 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.00 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 50 Resp: 771208
Ion Ratio Lower Upper
50 100
52 33.7 27.1 40.7





#5

Vinyl Chloride

Concen: 9.831 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 62 Resp: 674023

Ion Ratio Lower Upper

62 100

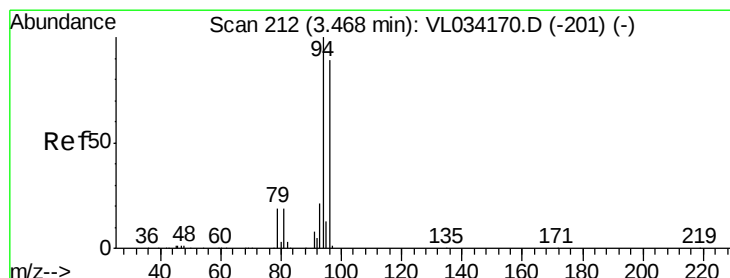
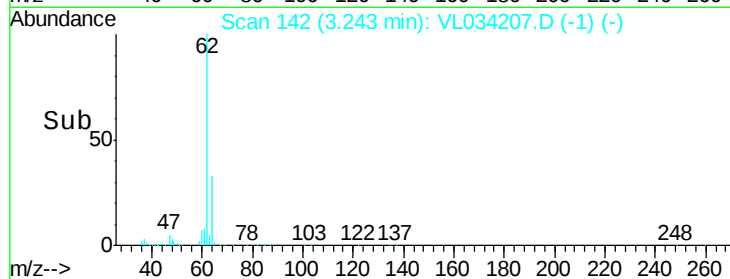
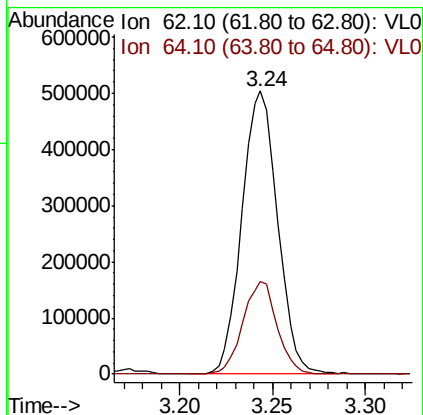
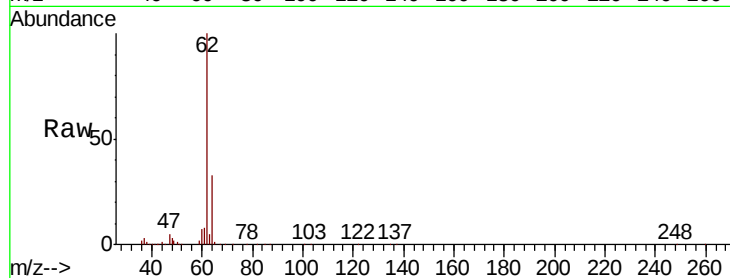
64 32.9 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 10.077 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL034207.D

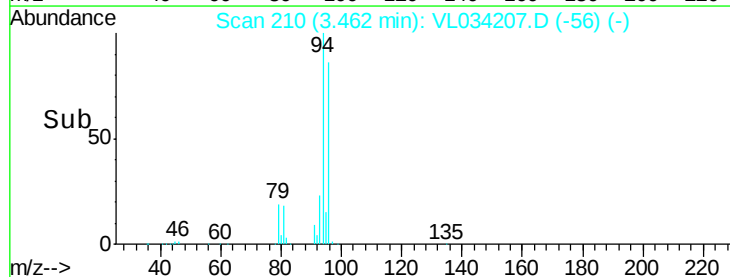
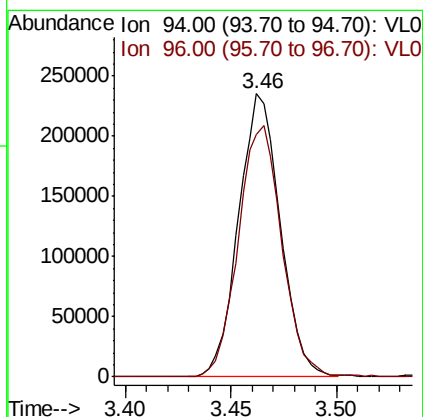
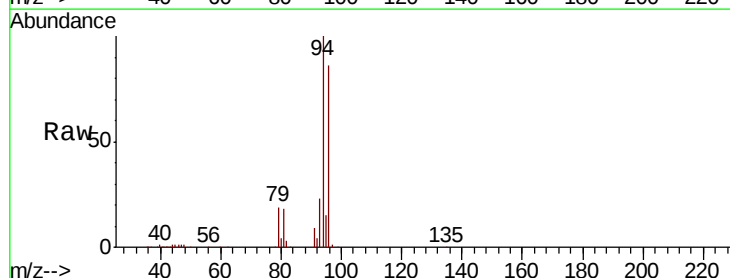
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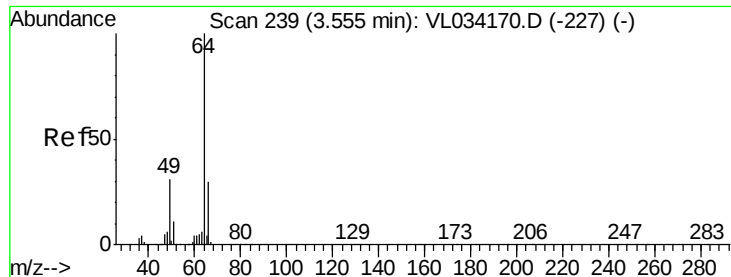
Tgt Ion: 94 Resp: 322331

Ion Ratio Lower Upper

94 100

96 85.7 71.3 106.9





#7

Chloroethane

Concen: 10.127 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 64 Resp: 242684

Ion Ratio Lower Upper

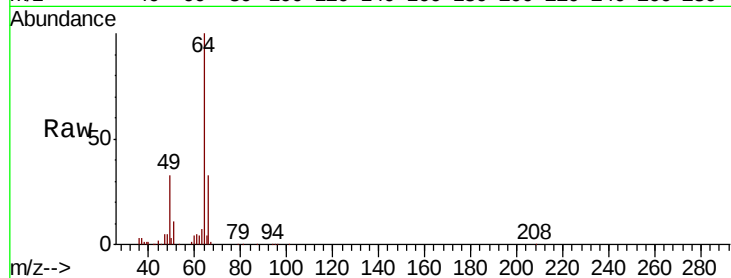
64 100

66 32.7 24.2 36.4

Manual Integrations
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

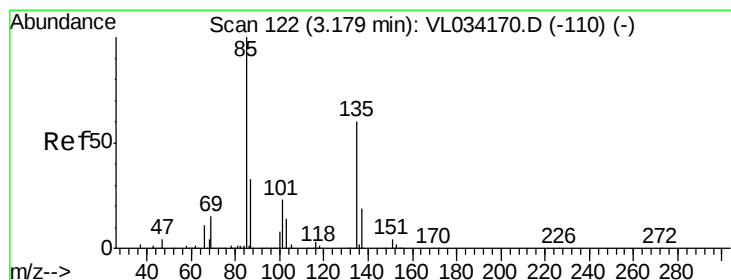
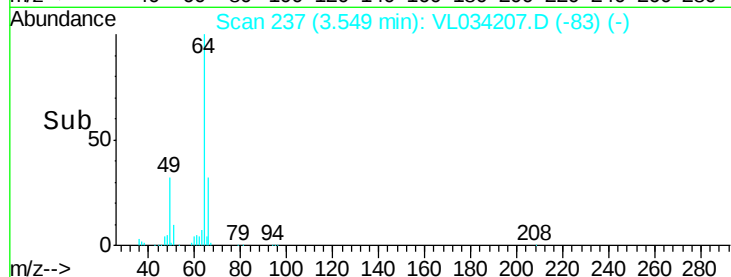
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.867 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.01 min

Lab File: VL034207.D

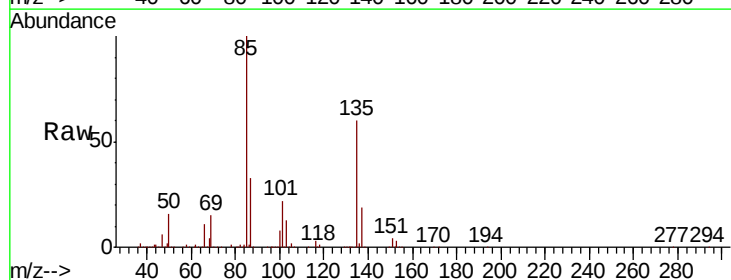
Acq: 2 Oct 2019 11:53

Tgt Ion: 85 Resp: 1400553

Ion Ratio Lower Upper

85 100

135 58.1 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.17

1200000

1000000

800000

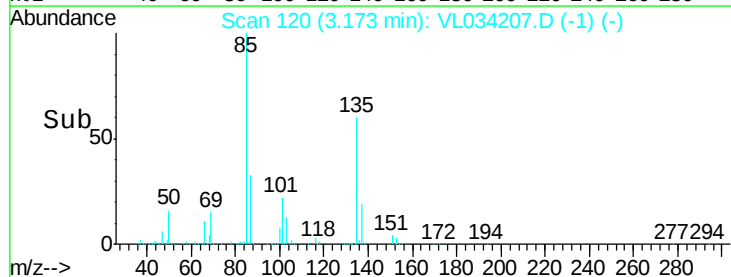
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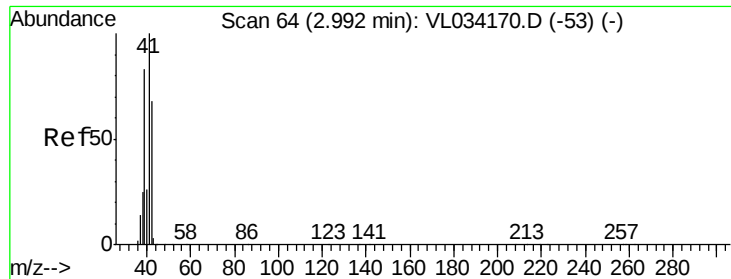
400000

200000

0

Time-->





#9

Propene

Concen: 9.967 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 41 Resp: 627793

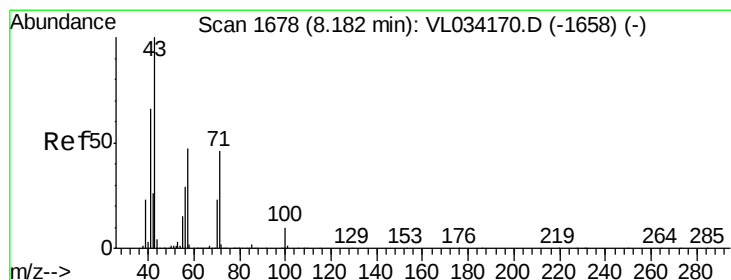
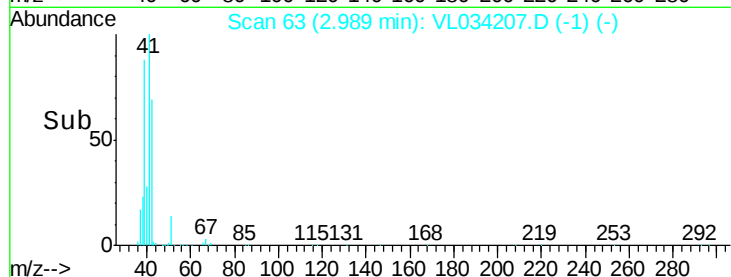
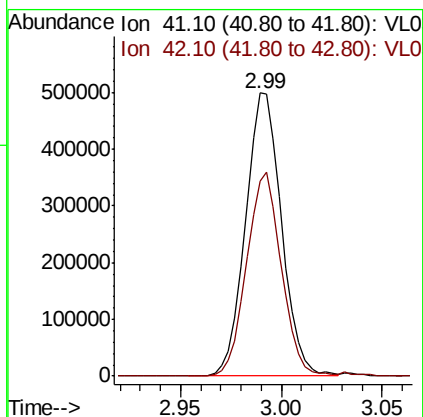
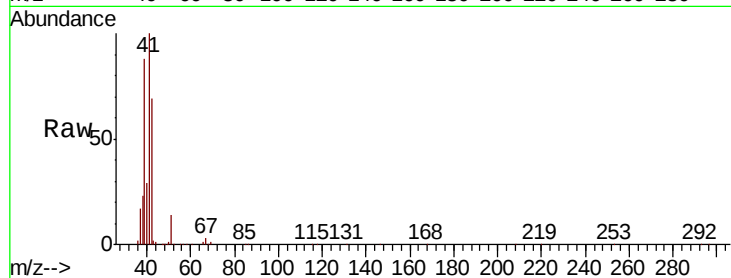
Ion Ratio Lower Upper

41 100

42 70.1 55.8 83.6

Manual Integrations
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10/7/2019 12:29:14 PM



#10

Heptane

Concen: 10.015 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. -0.01 min

Lab File: VL034207.D

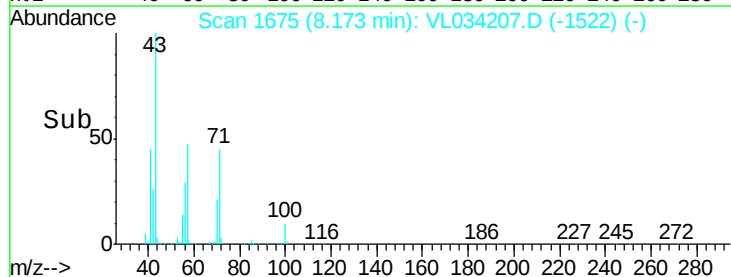
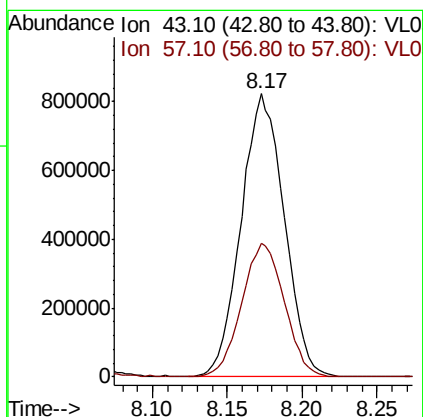
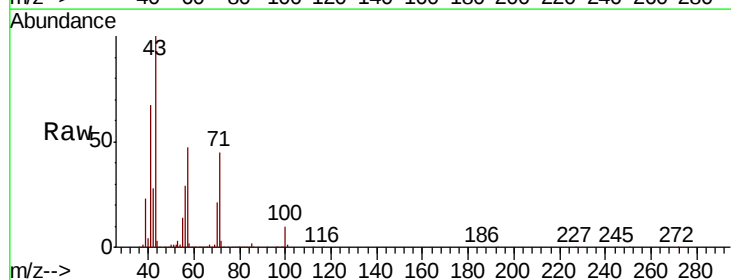
Acq: 2 Oct 2019 11:53

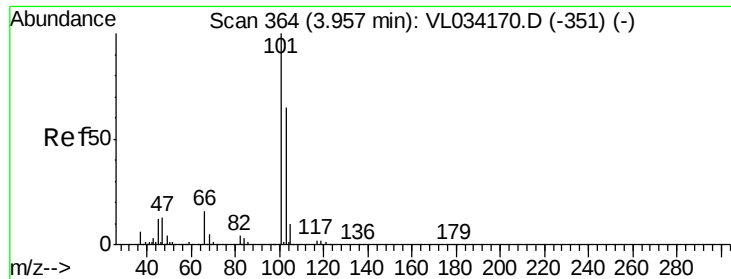
Tgt Ion: 43 Resp: 1644044

Ion Ratio Lower Upper

43 100

57 46.9 37.5 56.3





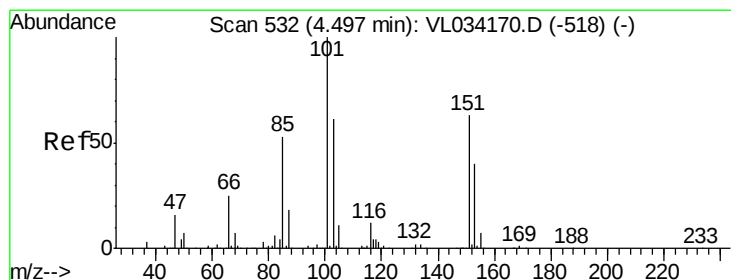
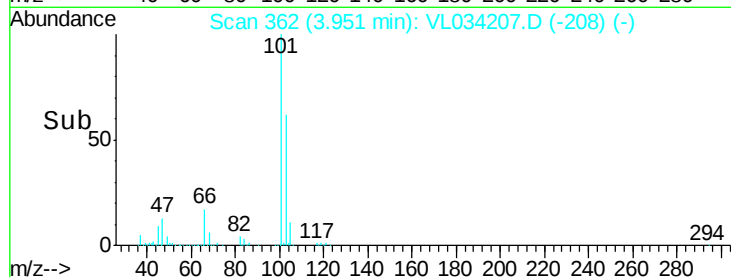
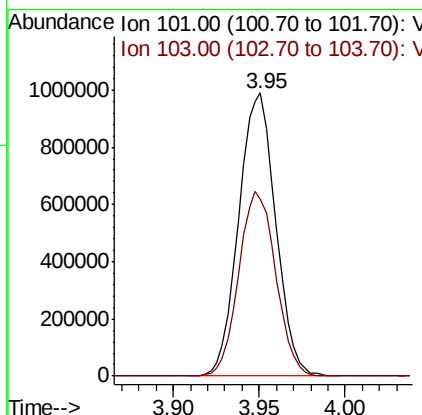
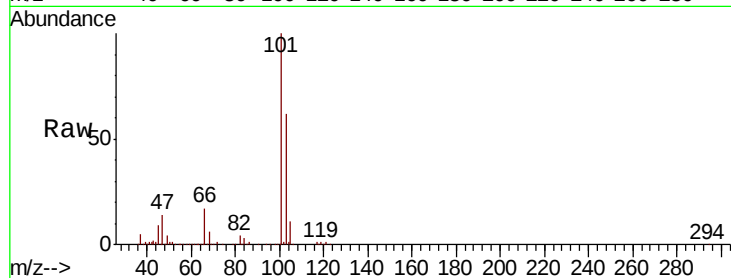
#11
 Trichlorofluoromethane
 Concen: 10.112 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion:101 Resp: 1480329
 Ion Ratio Lower Upper
 101 100
 103 62.4 52.1 78.1

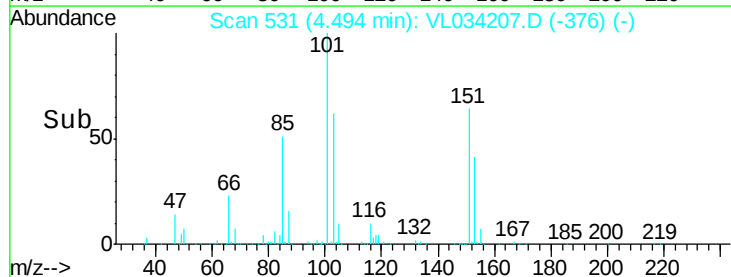
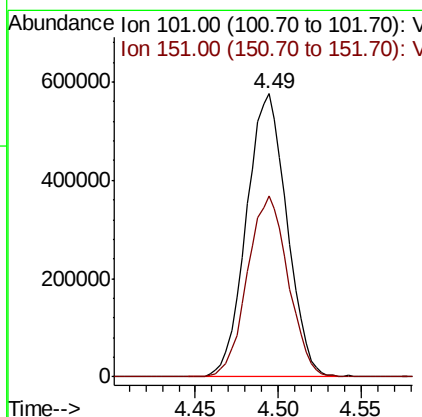
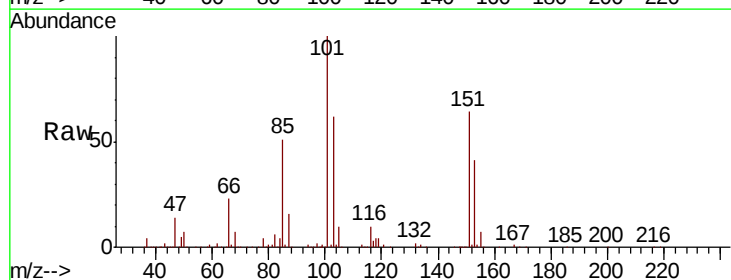
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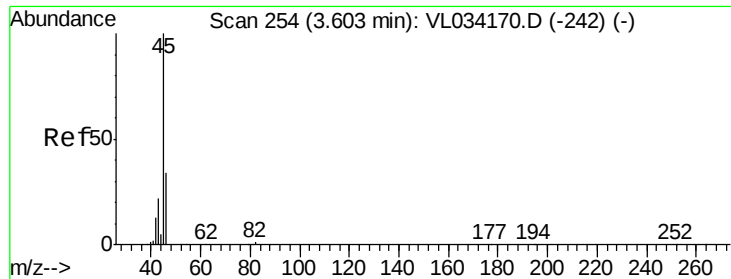
MMDadoda
 10/7/2019 12:29:14 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.190 ppbv
 RT: 4.49 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion:101 Resp: 976263
 Ion Ratio Lower Upper
 101 100
 151 64.6 51.8 77.8





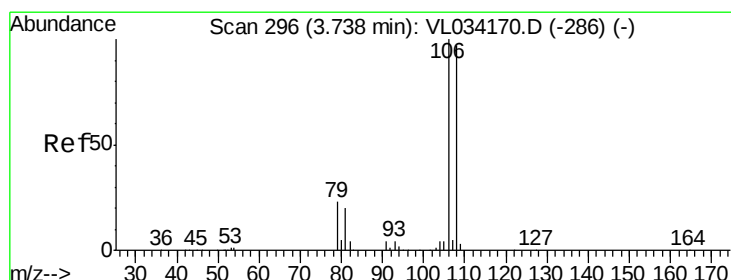
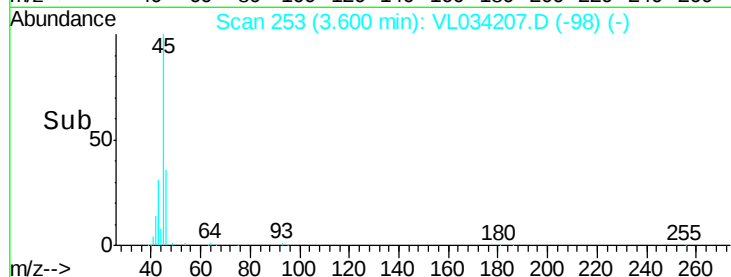
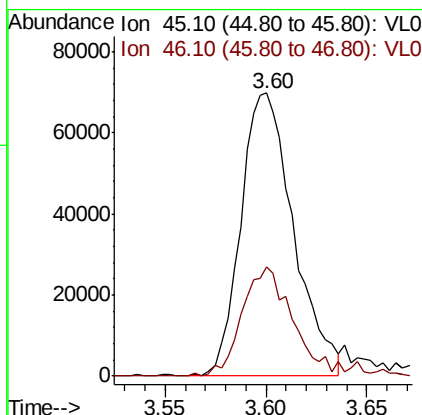
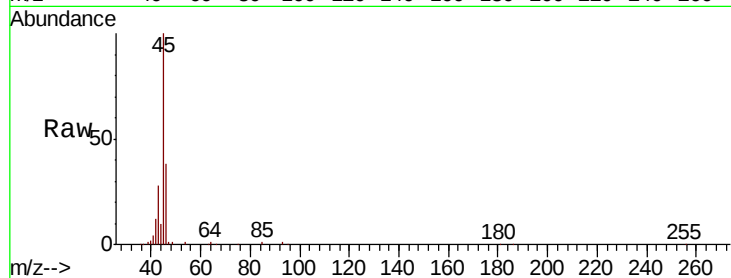
#13
Ethanol
Concen: 8.359 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	45	Resp	127493
Ion Ratio	100	Lower	Upper
46	38.2	15.5	61.9

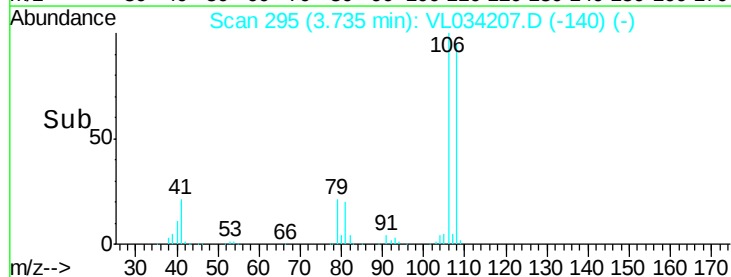
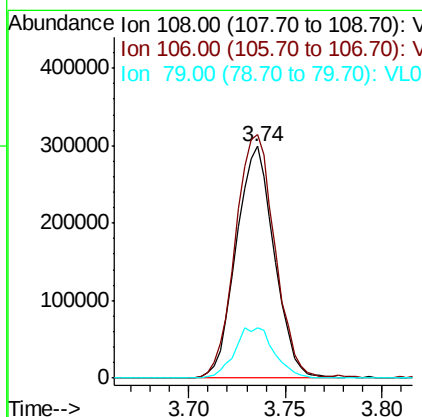
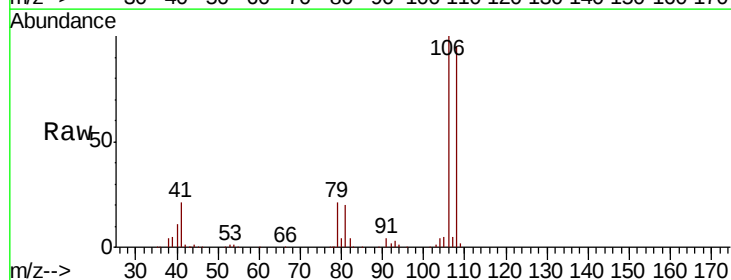
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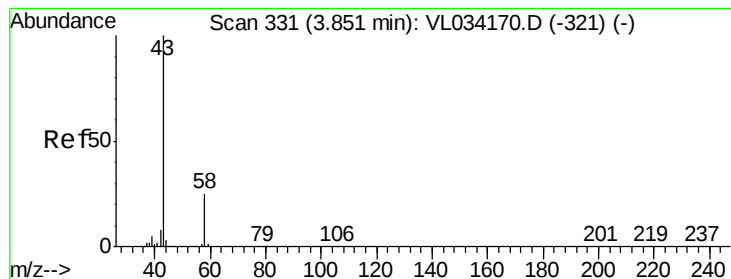
MMDadoda
10/7/2019 12:29:14 PM



#14
Bromoethene
Concen: 10.449 ppbv
RT: 3.74 min Scan# 295
Delta R.T. -0.00 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	108	Resp	409304
Ion Ratio	100	Lower	Upper
106	109.8	86.2	129.4
79	22.7	18.6	27.8





#15

Acetone

Concen: 8.865 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 43 Resp: 1293616

Ion Ratio Lower Upper

43 100

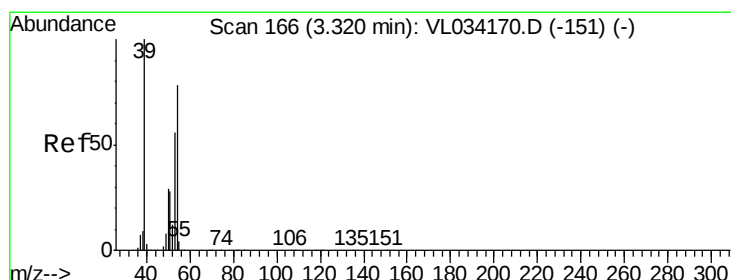
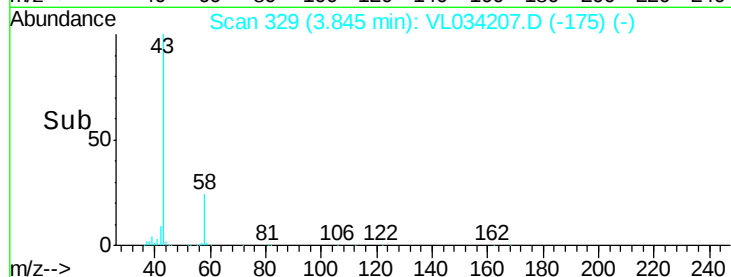
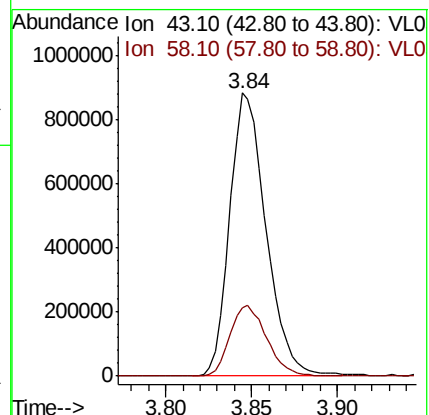
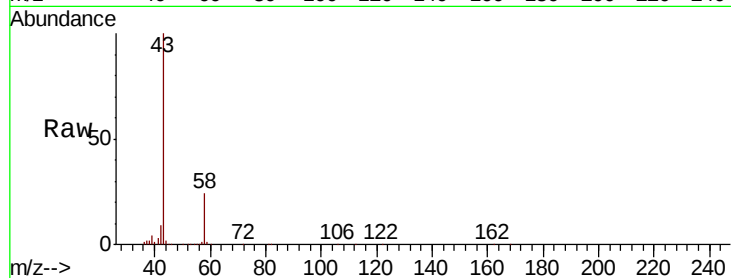
58 25.3 20.5 30.7

Manual Integrations

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#16

1,3-Butadiene

Concen: 10.537 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL034207.D

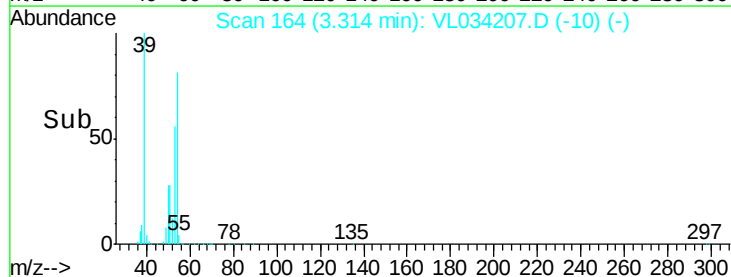
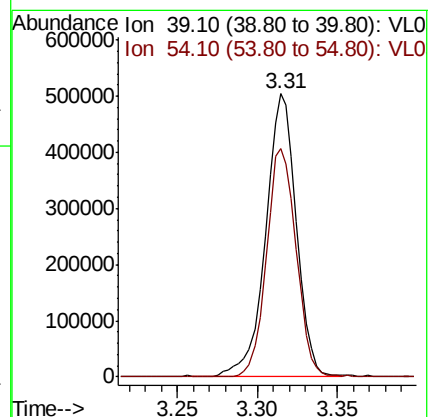
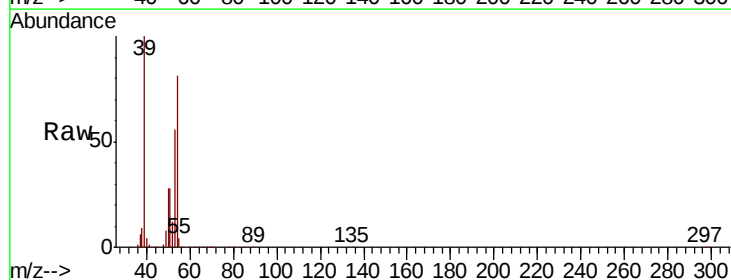
Acq: 2 Oct 2019 11:53

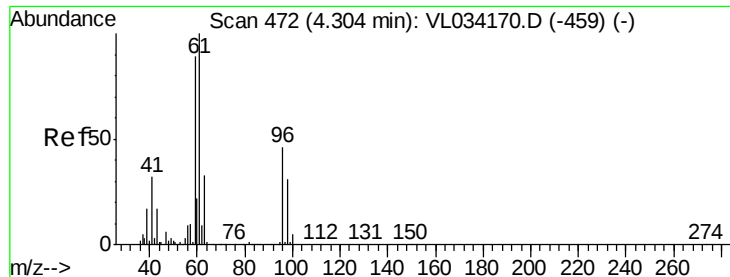
Tgt Ion: 39 Resp: 671064

Ion Ratio Lower Upper

39 100

54 78.0 63.4 95.0





#17

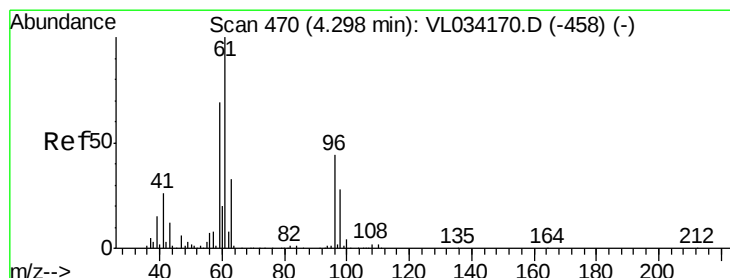
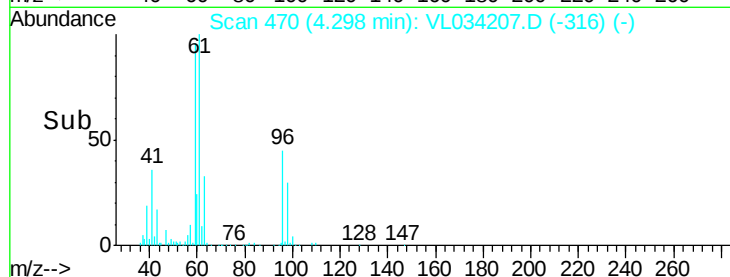
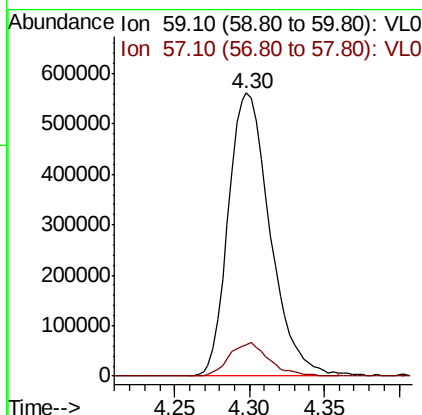
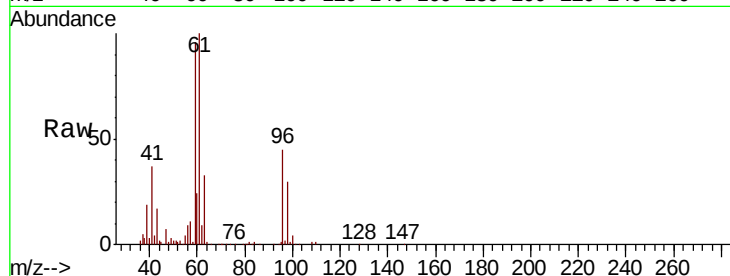
tert-Butyl alcohol
 Concen: 11.820 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion: 59 Resp: 1092904
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.7 13.1

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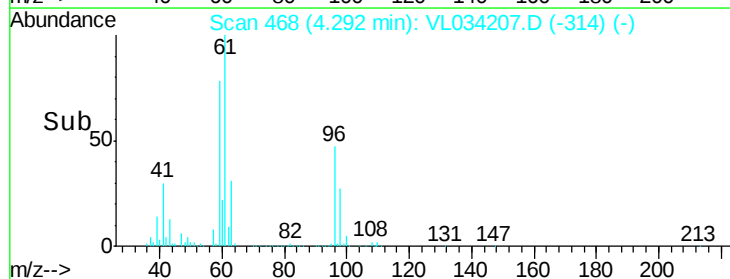
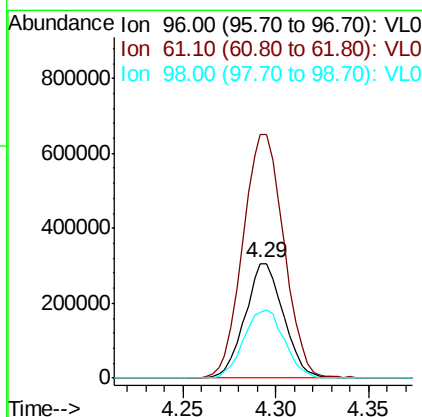
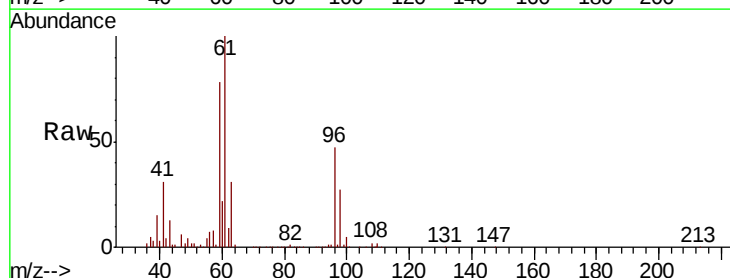
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 10/7/2019 12:29:14 PM

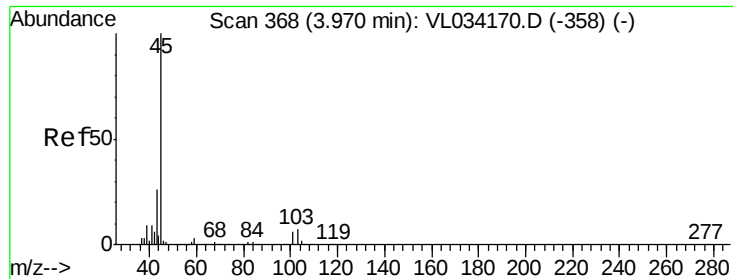


#18

1,1-Dichloroethene
 Concen: 10.622 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion: 96 Resp: 443875
 Ion Ratio Lower Upper
 96 100
 61 212.6 183.3 274.9
 98 57.4 51.4 77.2





#19

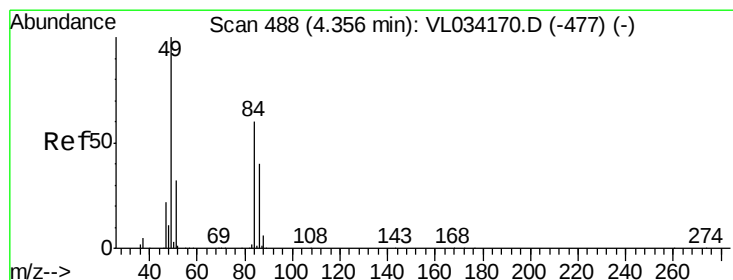
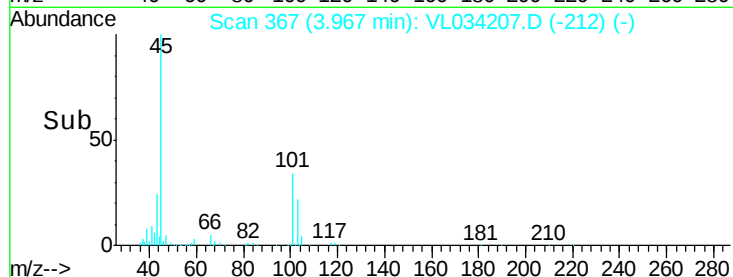
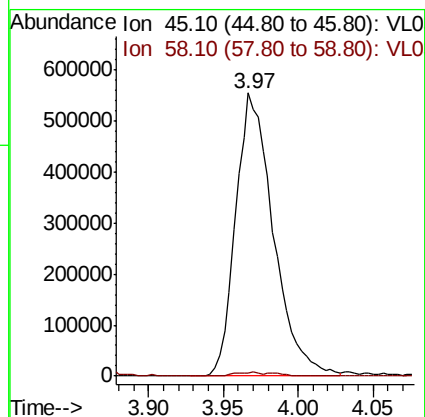
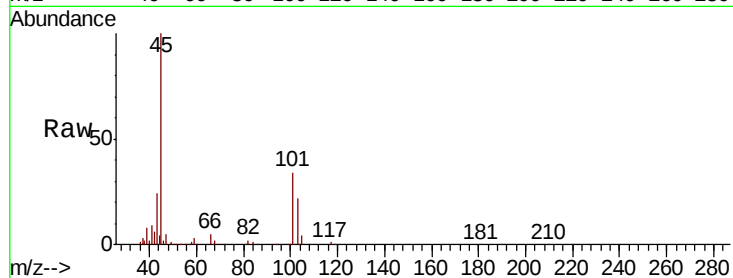
Isopropyl Alcohol
 Concen: 10.835 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	45	Resp	972312
Ion Ratio	100	Lower	Upper
58	1.6	1.4	2.0

Manual Integrations
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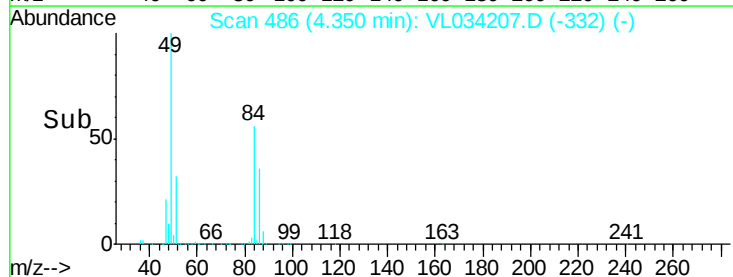
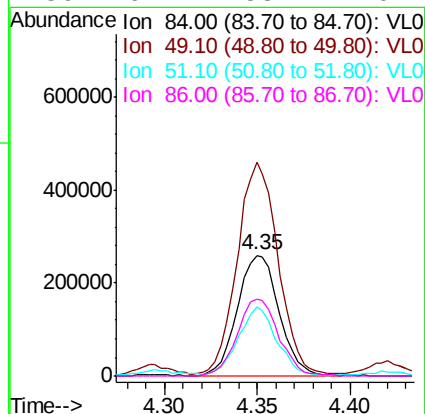
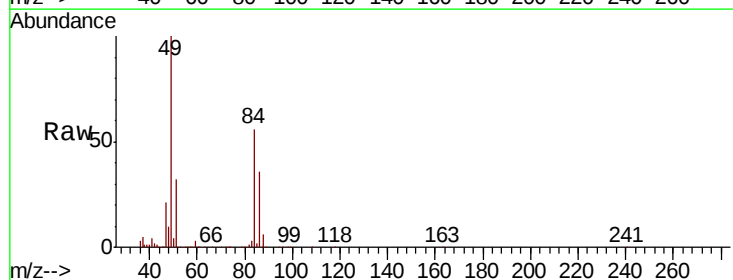
MMDadoda
 10/7/2019 12:29:14 PM

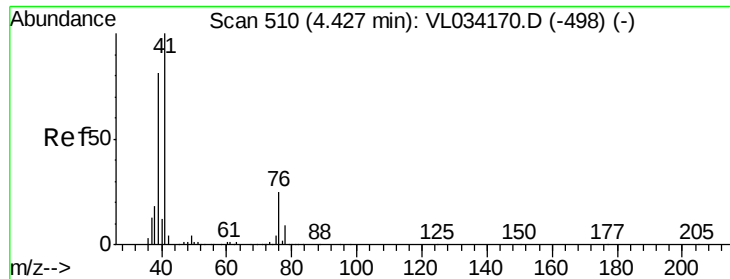


#20

Methylene Chloride
 Concen: 9.577 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	84	Resp	402932
Ion Ratio	100	Lower	Upper
49	176.2	133.8	200.8
51	55.9	43.6	65.4
86	64.2	53.1	79.7





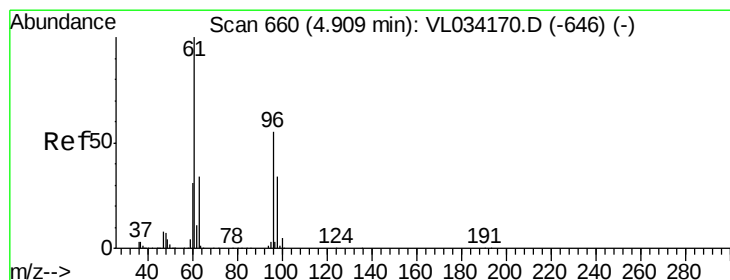
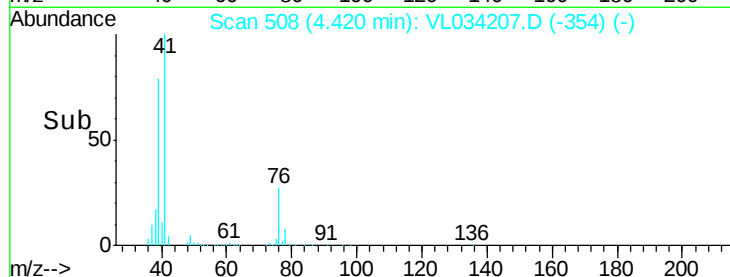
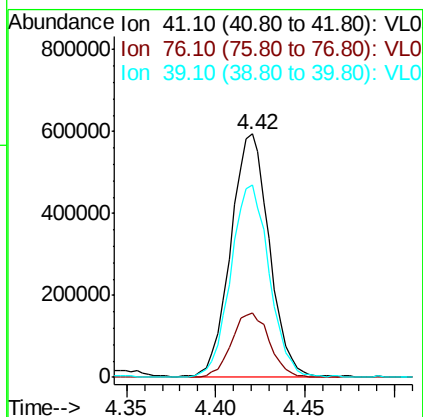
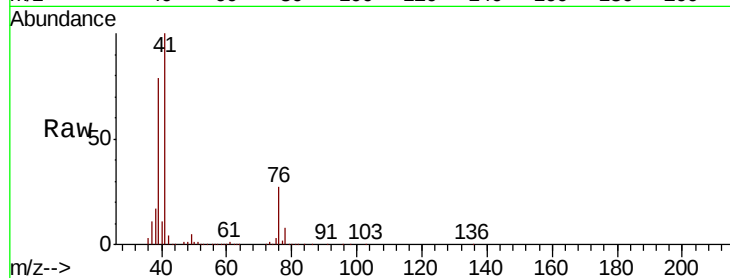
#21
Allvl Chloride
Concen: 10.759 ppbv
RT: 4.42 min Scan# 508
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	26.3	21.8	32.6
39	78.8	64.8	97.2

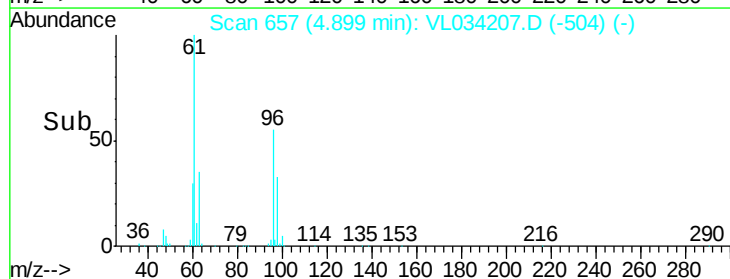
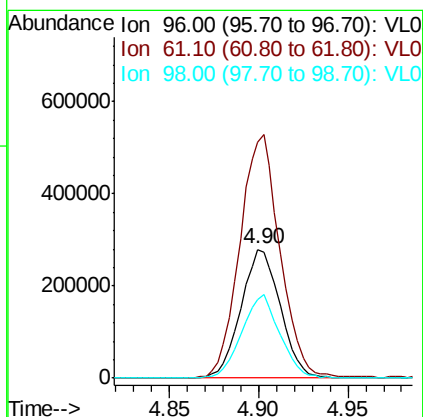
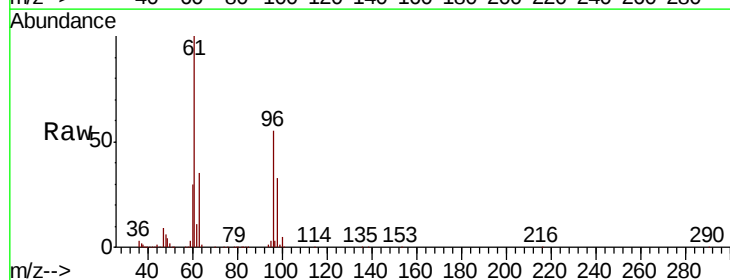
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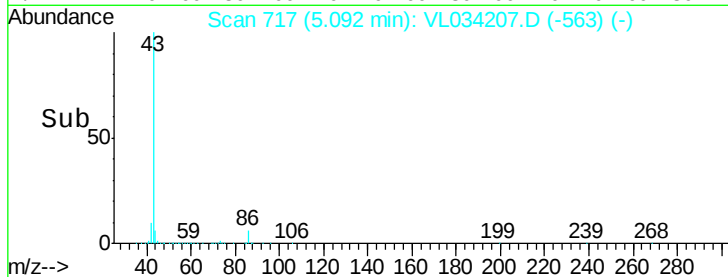
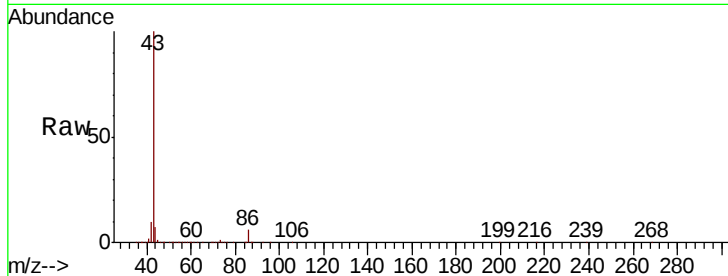
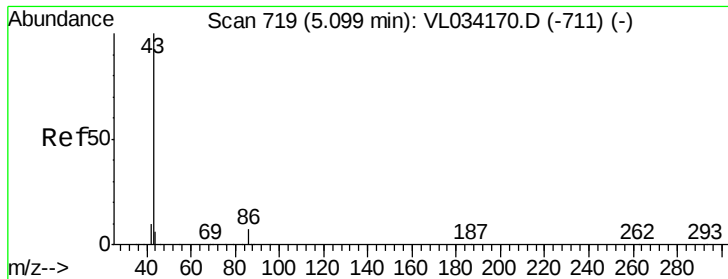
MMDadoda
10/7/2019 12:29:14 PM



#22
trans-1,2-Dichloroethene
Concen: 10.324 ppbv
RT: 4.90 min Scan# 657
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.7	145.5	218.3
98	60.7	49.9	74.9





#23

Vinyl Acetate

Concen: 10.036 ppbv

RT: 5.09 min Scan# 717

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Tot Ion: 43 Resp: 2158254

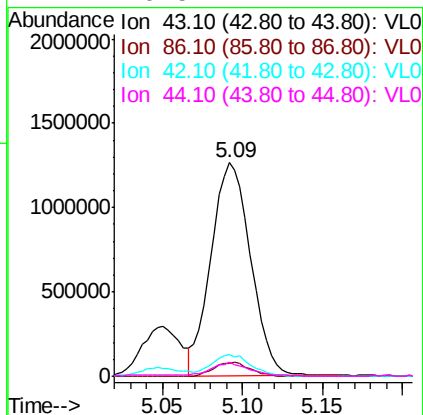
Ion Ratio Lower Upper

43 100

86 6.2 5.1 7.7

42 10.4 8.6 12.8

44 6.5 4.7 7.1



Instrument :

MSVOA_L

ClientSampleId :

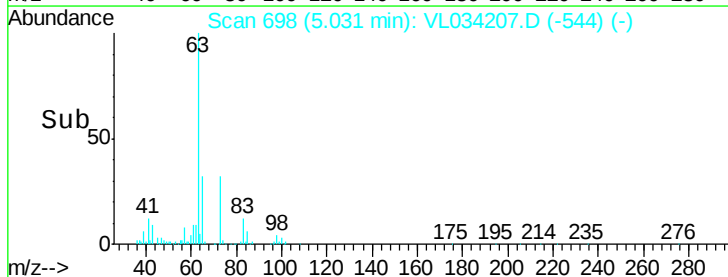
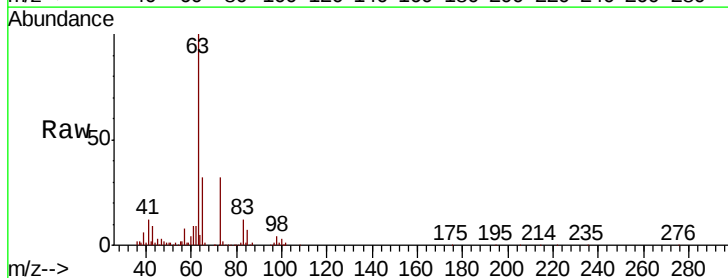
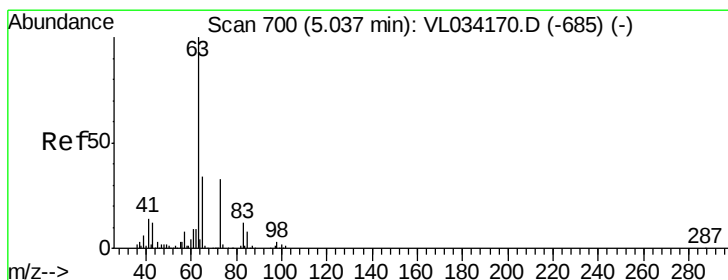
VL1002ABS01

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#24

1,1-Dichloroethane

Concen: 9.881 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

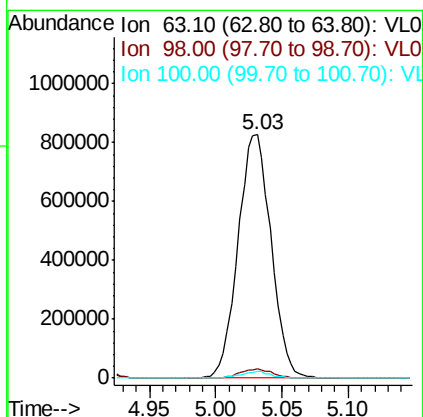
Tgt Ion: 63 Resp: 1430733

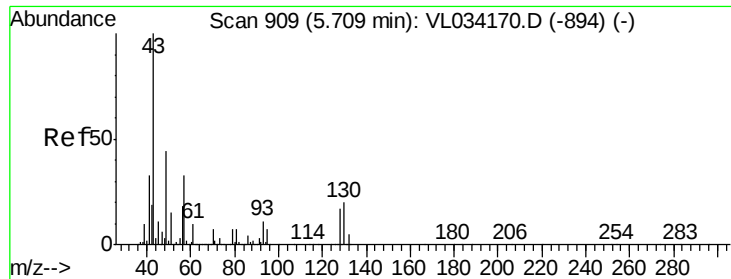
Ion Ratio Lower Upper

63 100

98 4.0 1.8 5.3

100 2.6 1.0 3.0





#25

Ethyl Acetate

Concen: 9.586 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 43 Resp: 2645380

Ion Ratio Lower Upper

43 100

45 10.2 8.4 12.6

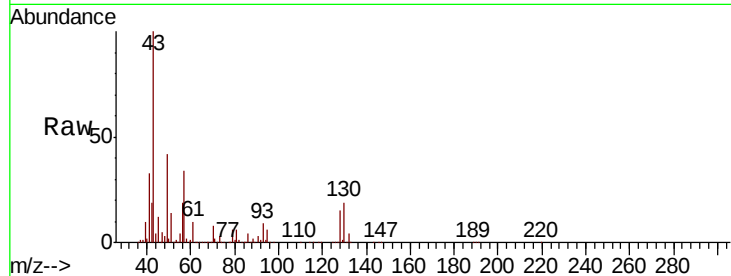
61 9.2 7.2 10.8

70 6.6 5.3 7.9

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10/7/2019 12:29:14 PM

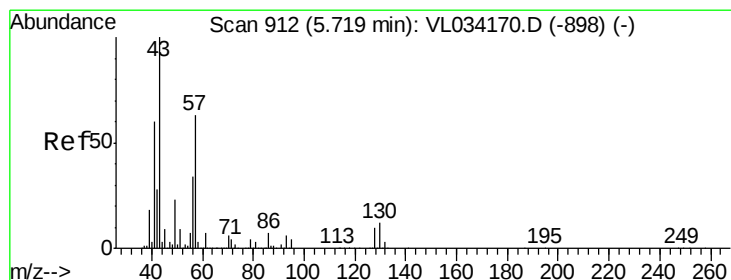
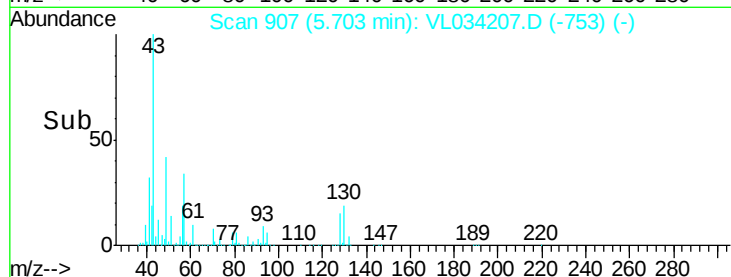
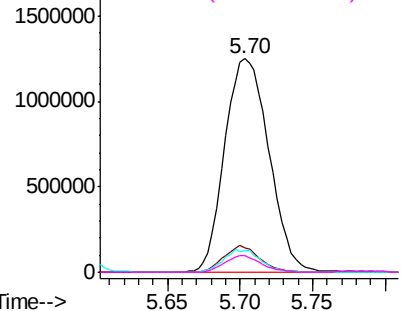


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.760 ppbv

RT: 5.71 min Scan# 910

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Tgt Ion: 57 Resp: 1120360

Ion Ratio Lower Upper

57 100

41 98.8 78.5 117.7

43 237.1 189.5 284.3

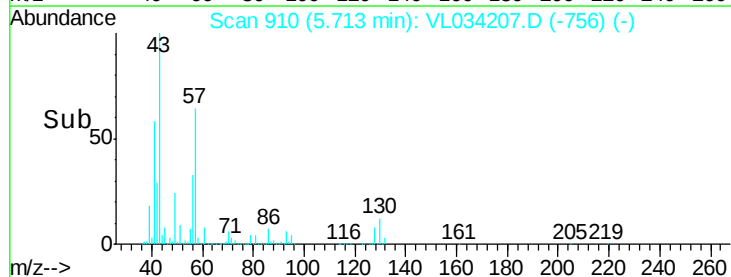
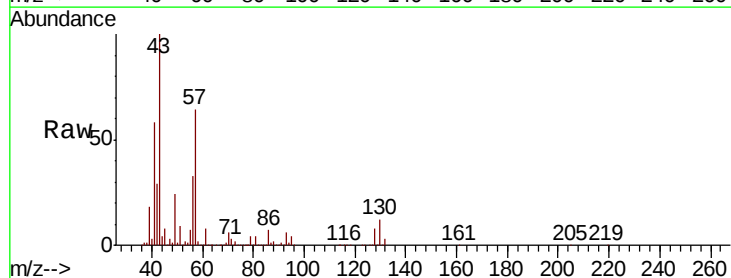
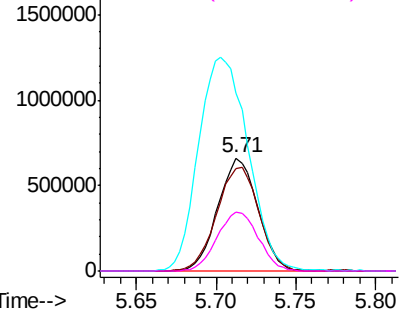
56 54.0 43.2 64.8

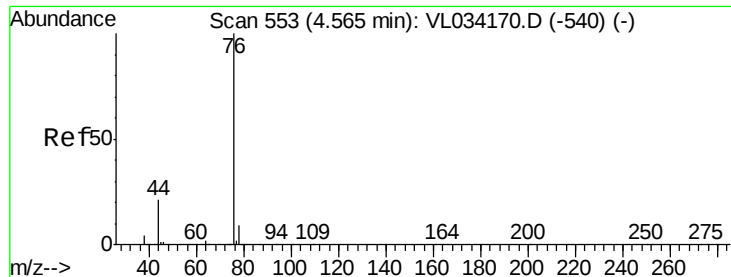
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 11.384 ppbv

RT: 4.56 min Scan# 551

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleID :

VL1002ABS01

Tot Ion: 76 Resp: 1205229

Ion Ratio Lower Upper

76 100

44 21.0 17.6 26.4

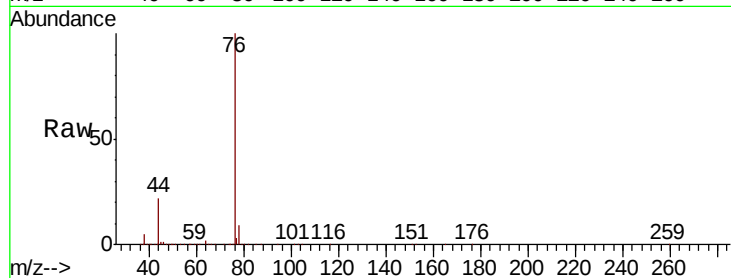
78 9.0 7.6 11.4

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MMDadoda

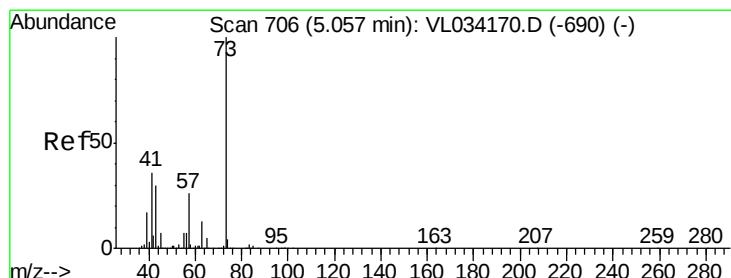
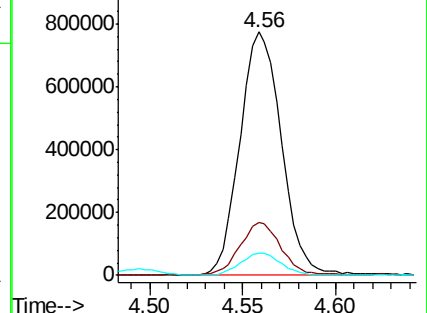
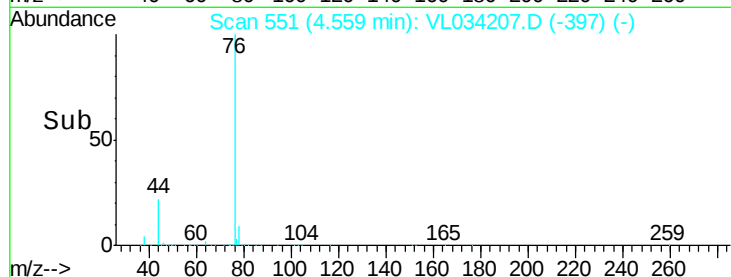
10/7/2019 12:29:14 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.240 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL034207.D

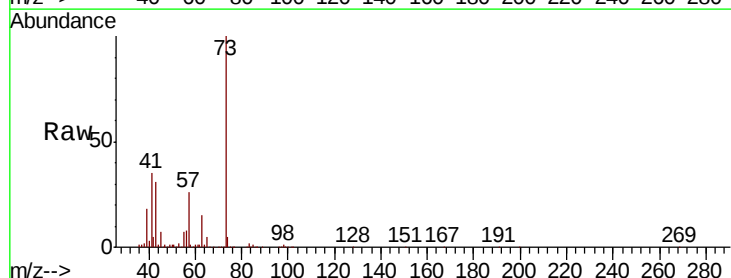
Acq: 2 Oct 2019 11:53

Tgt Ion: 73 Resp: 1745836

Ion Ratio Lower Upper

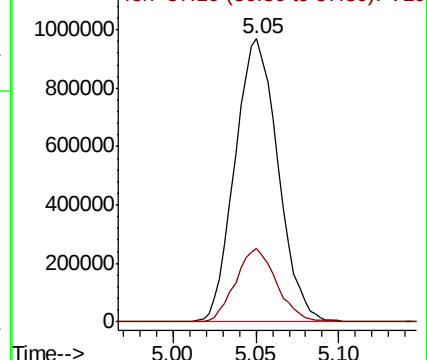
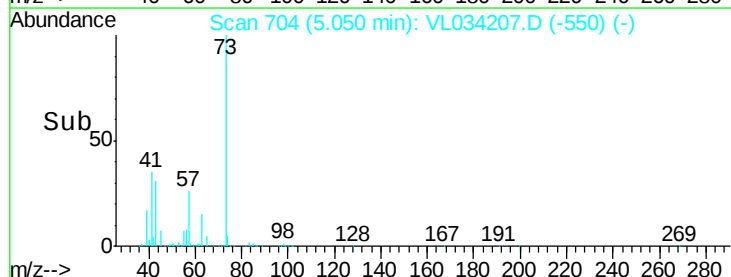
73 100

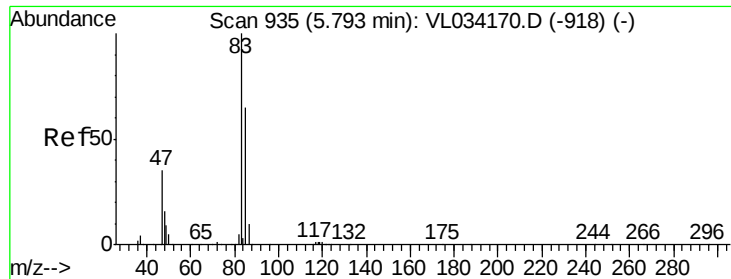
57 25.0 20.2 30.2



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





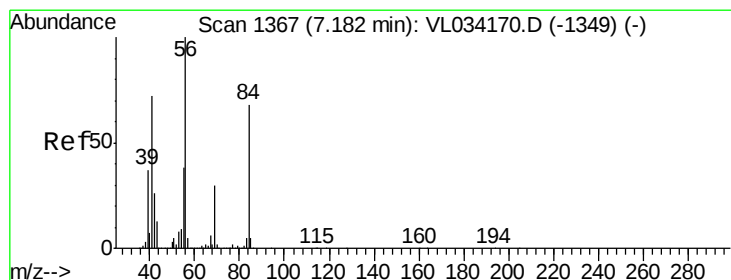
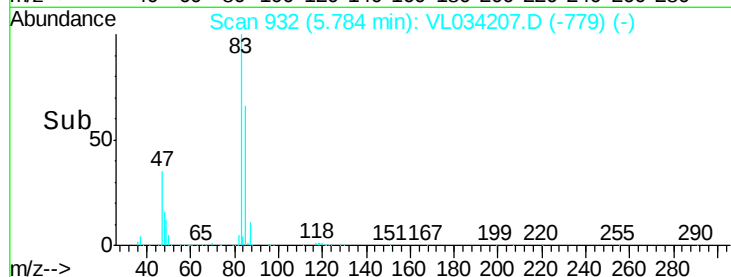
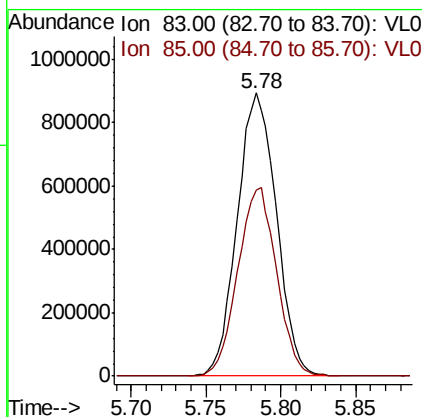
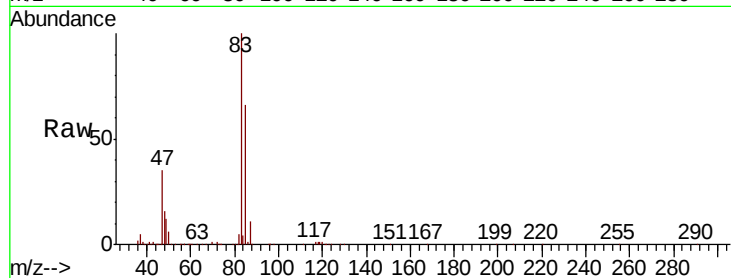
#29
Chloroform
Concen: 9.939 ppbv
RT: 5.78 min Scan# 932
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion: 83 Resp: 1630307
Ion Ratio Lower Upper
83 100
85 65.9 52.3 78.5

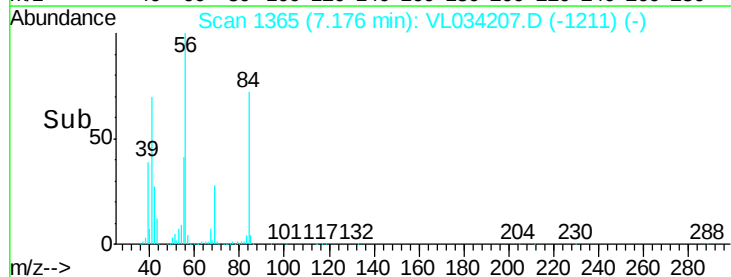
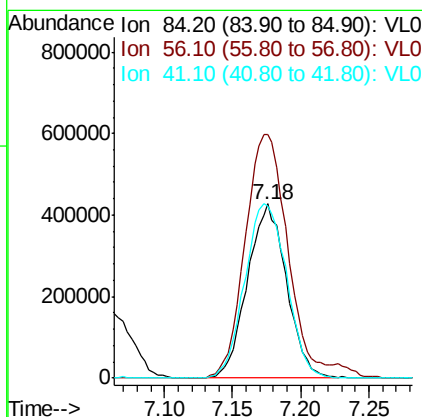
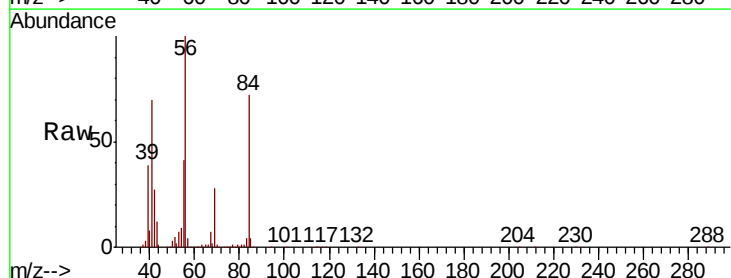
Manual Integrations
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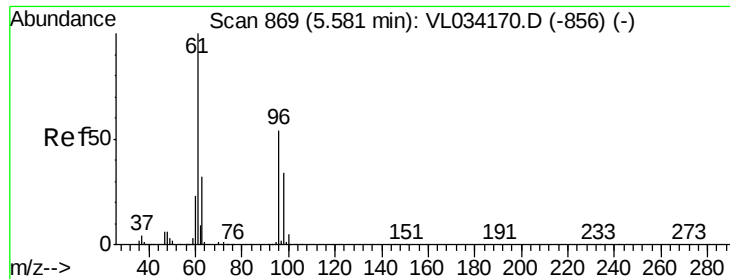
MMDadoda
10/7/2019 12:29:14 PM



#30
Cyclohexane
Concen: 10.264 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 84 Resp: 850600
Ion Ratio Lower Upper
84 100
56 156.2 126.2 189.2
41 107.2 85.8 128.8





#31

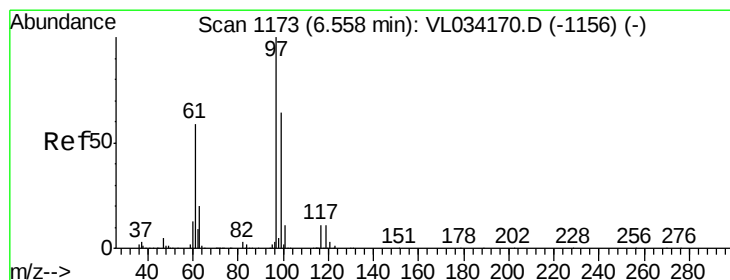
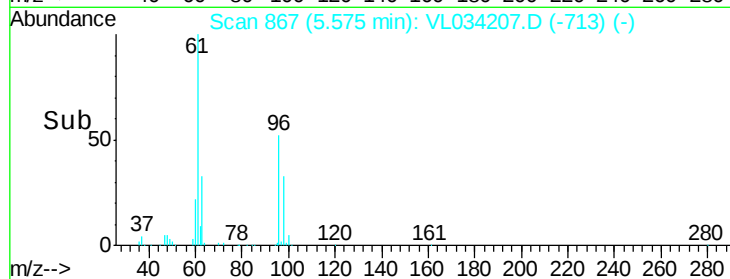
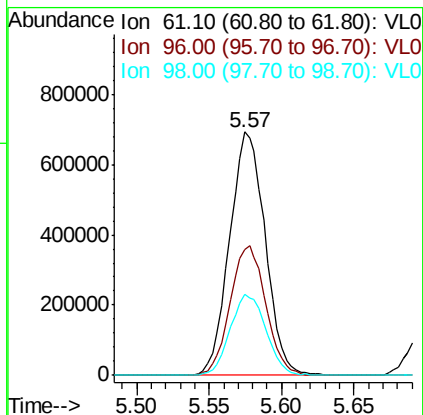
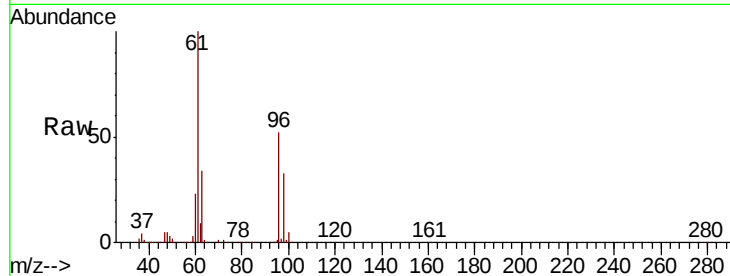
cis-1,2-Dichloroethene
 Concen: 10.080 ppbv
 RT: 5.57 min Scan# 867
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	51.9	43.0	64.4
98	33.4	27.2	40.8

Manual Integrations
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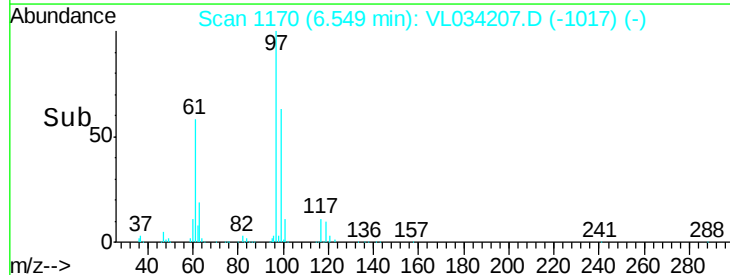
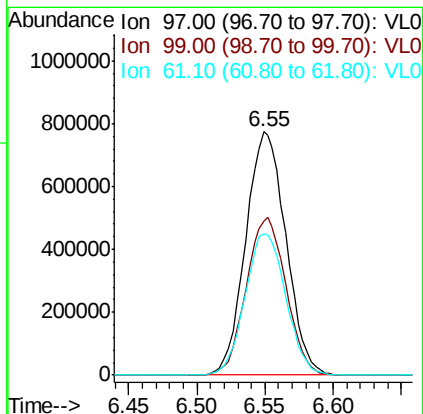
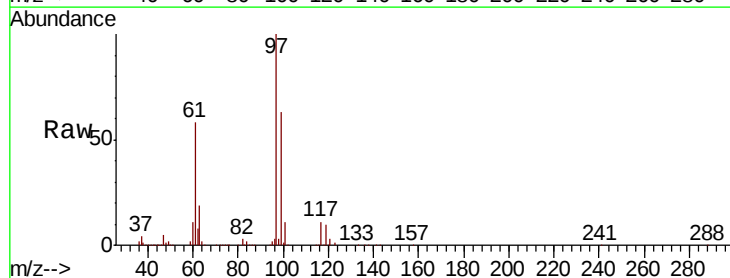
MMDadoda
 10/7/2019 12:29:14 PM

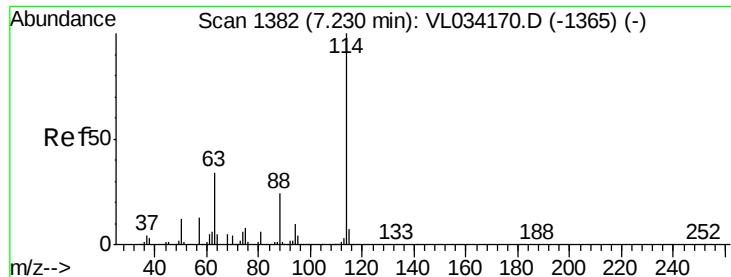


#32

1,1,1-Trichloroethane
 Concen: 10.003 ppbv
 RT: 6.55 min Scan# 1170
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	59.1	48.4	72.6





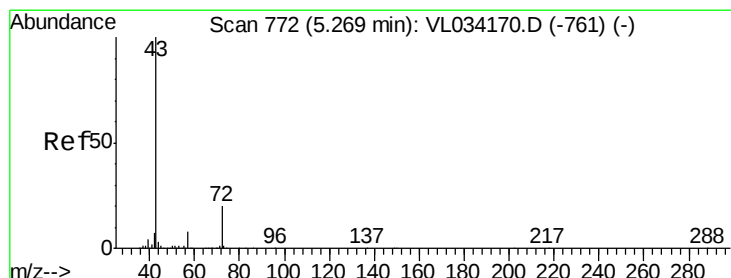
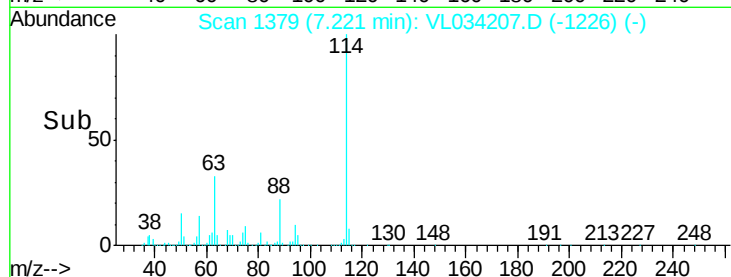
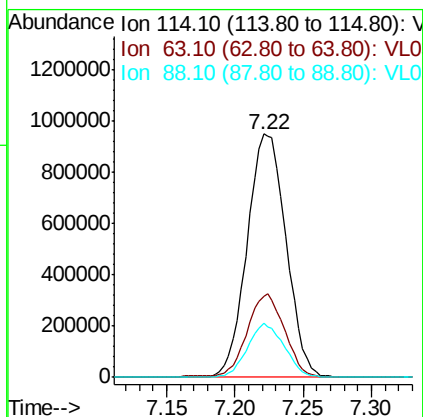
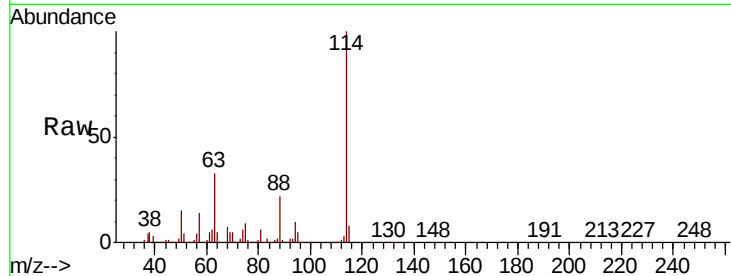
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion:114 Resp: 1879563
 Ion Ratio Lower Upper
 114 100
 63 33.5 27.8 41.6
 88 21.0 17.1 25.7

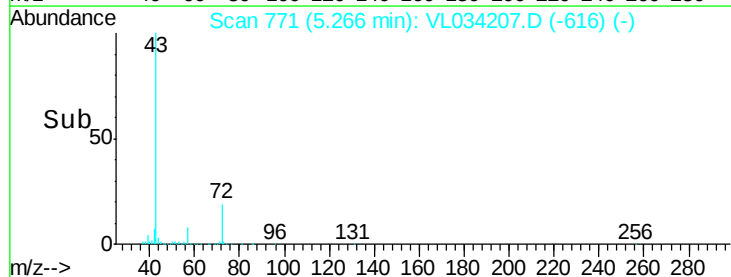
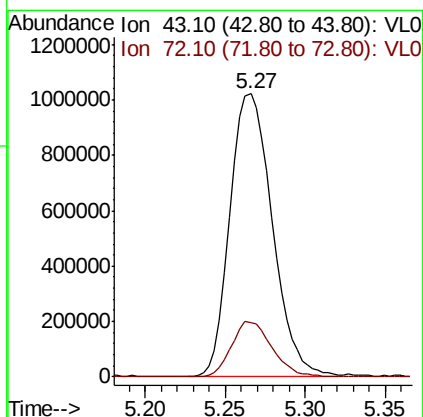
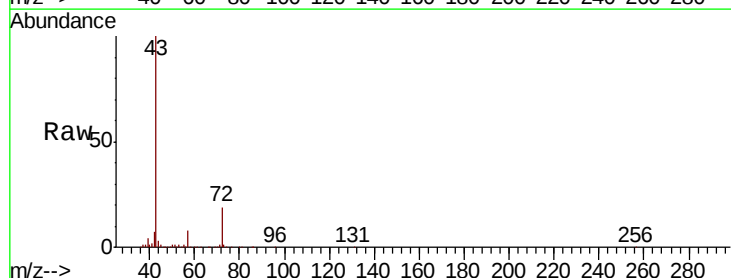
Manual Integrations
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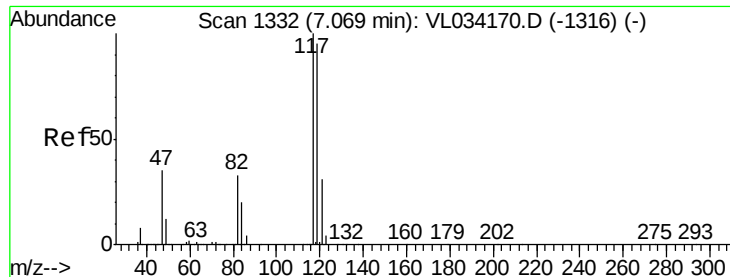
MMDadoda
 10/7/2019 12:29:14 PM



#34
 2-Butanone
 Concen: 9.585 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. -0.00 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion: 43 Resp: 1839533
 Ion Ratio Lower Upper
 43 100
 72 18.9 15.0 22.6





#35

Carbon Tetrachloride

Concen: 9.924 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion:117 Resp: 1549626

Ion Ratio Lower Upper

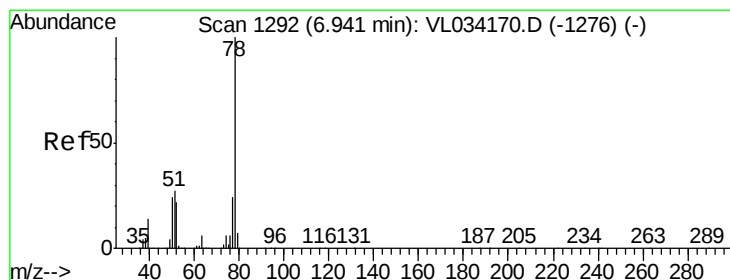
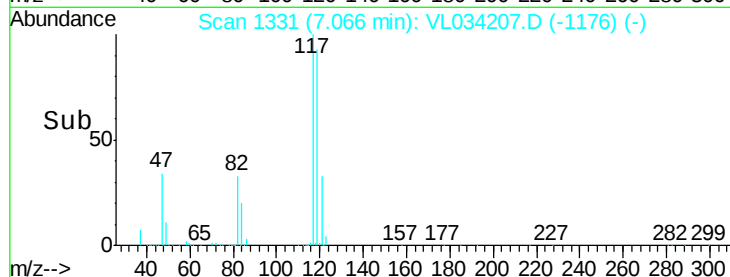
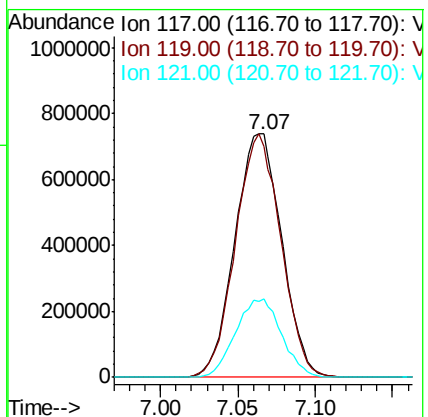
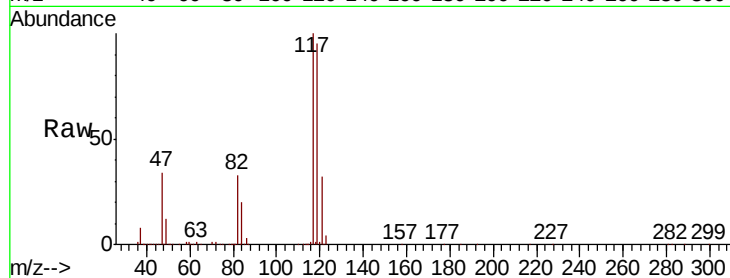
117 100

119 94.5 75.8 113.6

121 32.3 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
10/7/2019 12:29:14 PM



#36

Benzene

Concen: 9.720 ppbv

RT: 6.94 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

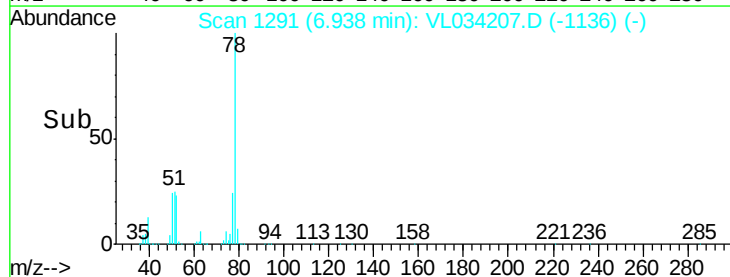
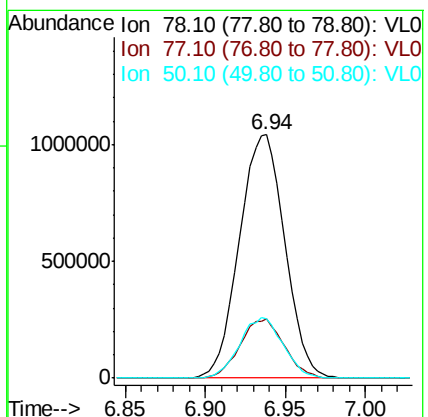
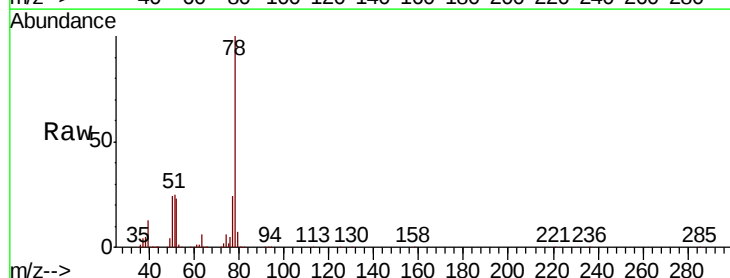
Tgt Ion: 78 Resp: 2017689

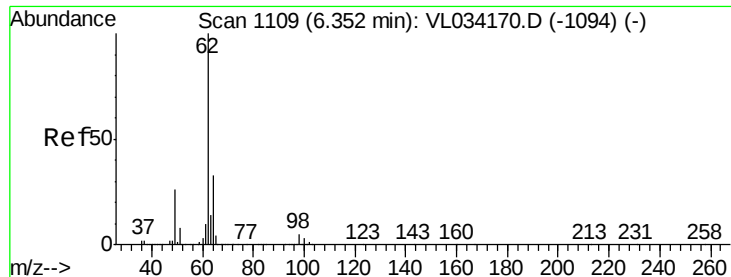
Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4

50 24.4 18.9 28.3





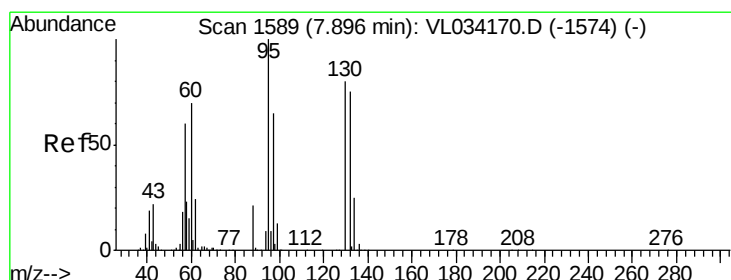
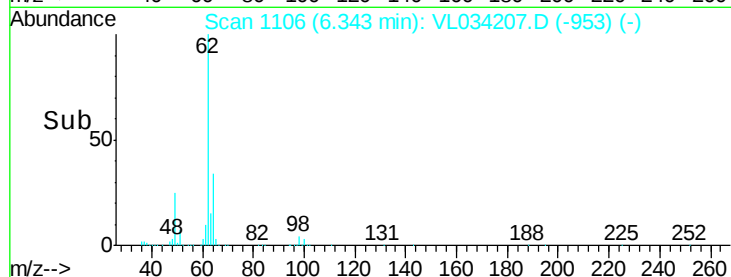
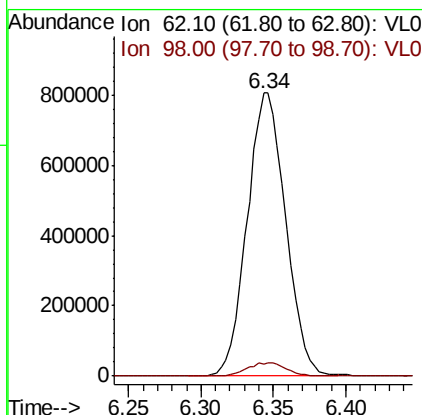
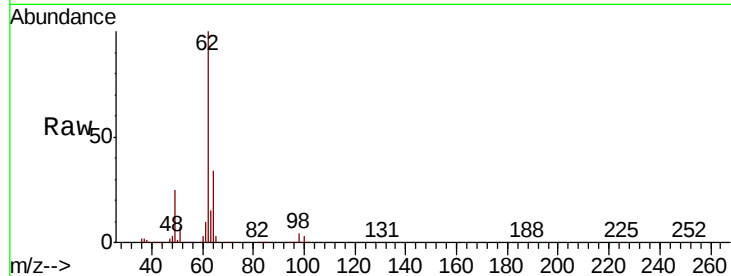
#37
 1,2-Dichloroethane
 Concen: 10.065 ppbv
 RT: 6.34 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.7	3.8	5.8

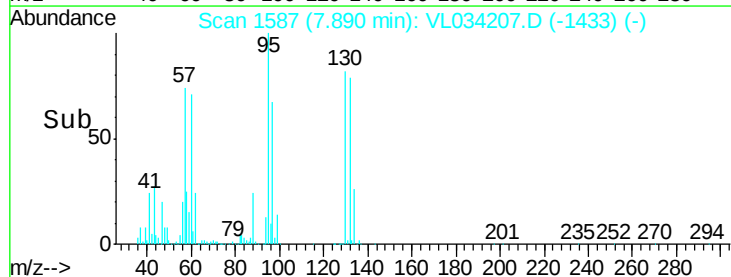
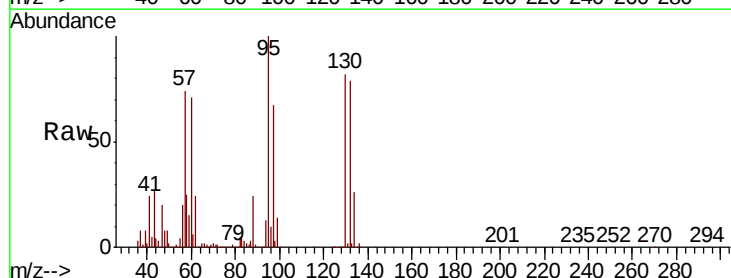
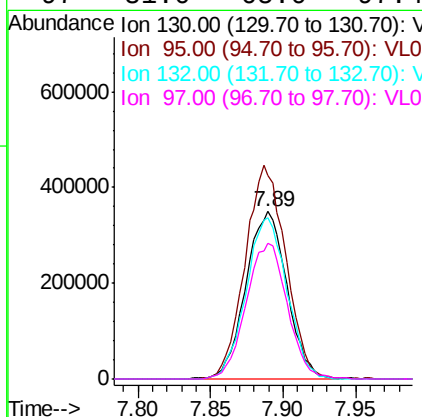
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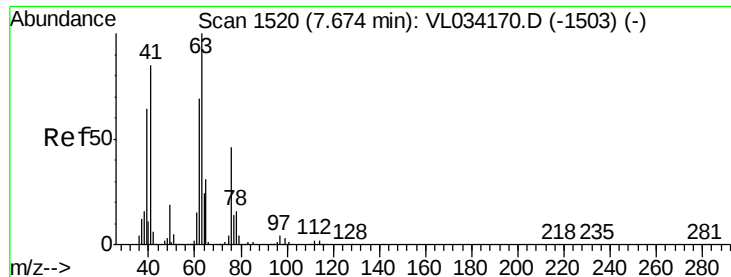
MMDadoda
 10/7/2019 12:29:14 PM



#38
 Trichloroethene
 Concen: 9.254 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	121.6	99.8	149.6
132	96.2	75.2	112.8
97	81.0	65.0	97.4





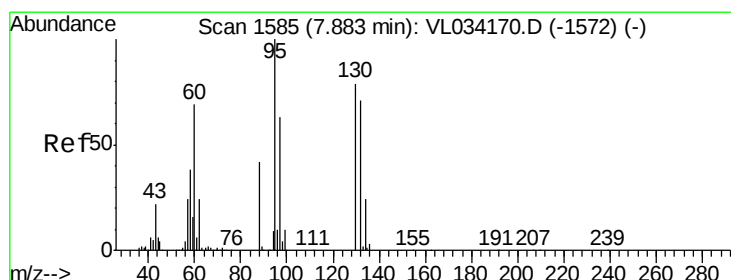
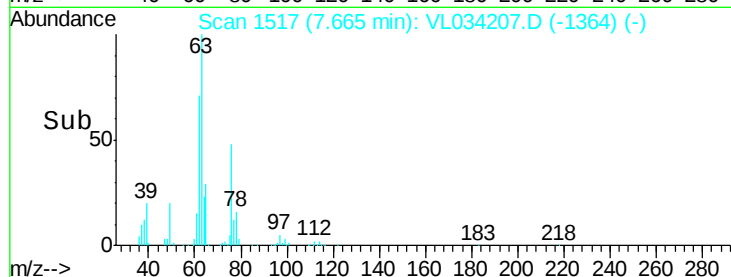
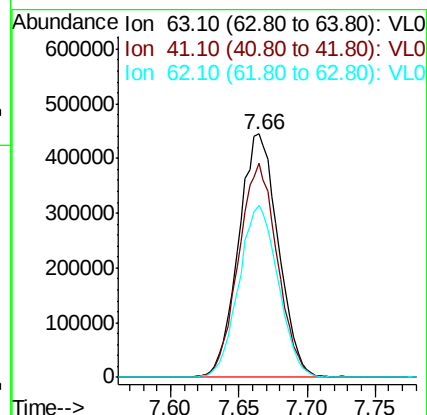
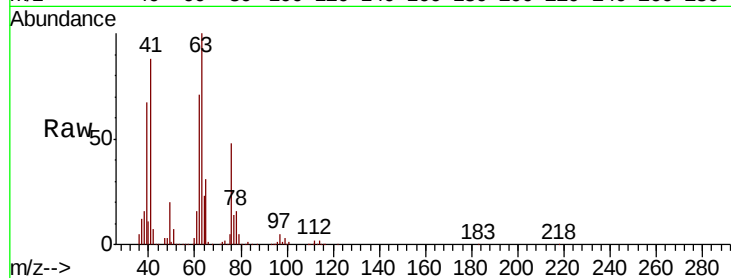
#39
 1,2-Dichloropropane
 Concen: 9.612 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	87.6	68.4	102.6
62	70.8	55.4	83.2

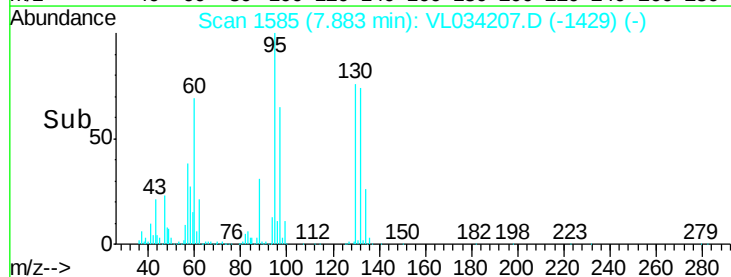
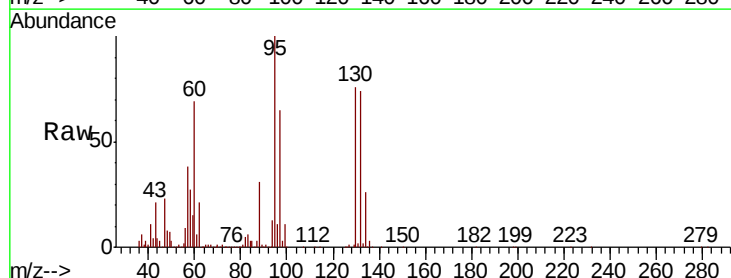
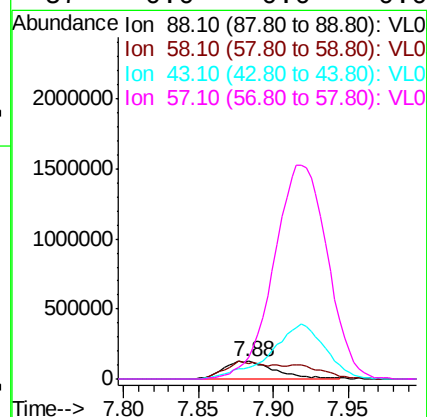
Manual Integrations
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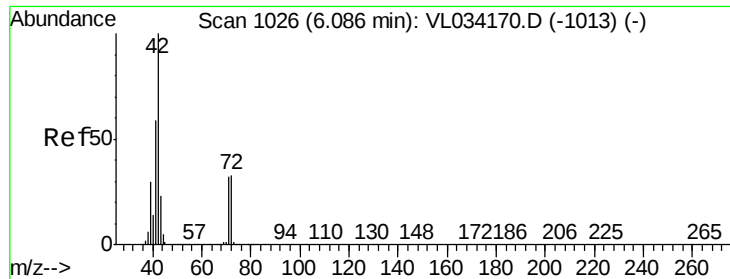
MMDadoda
 10/7/2019 12:29:14 PM



#40
 1,4-Dioxane
 Concen: 10.012 ppbv m
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.00 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
88	100		
58	150.8	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





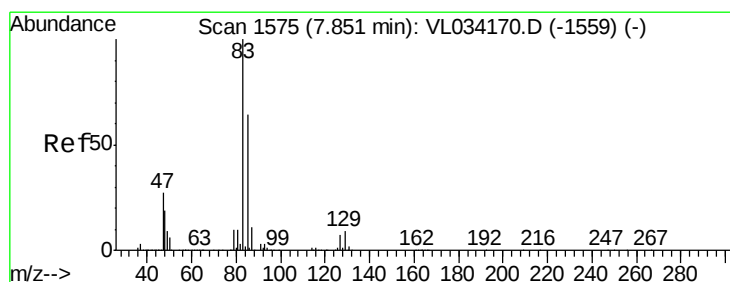
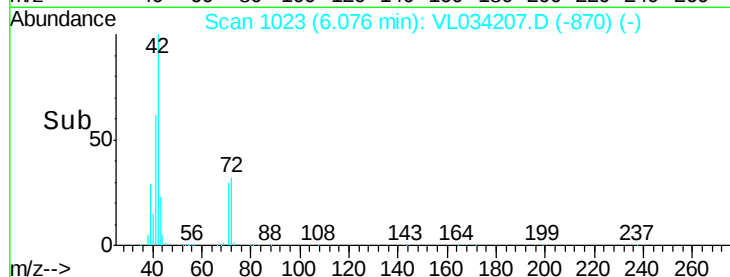
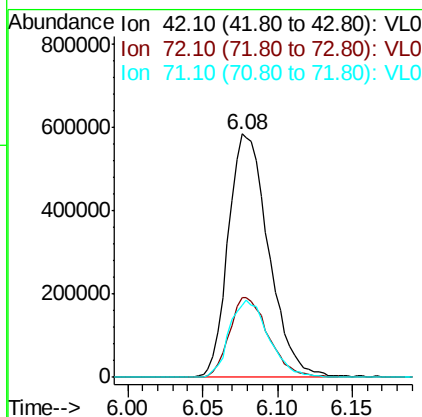
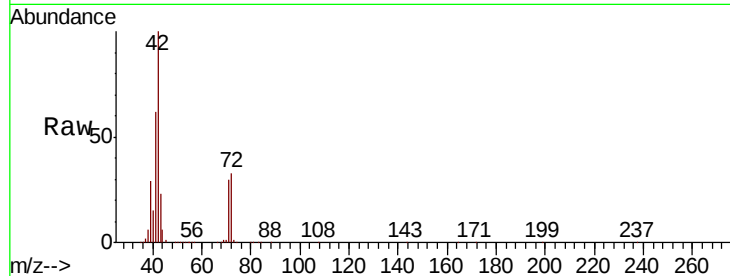
#41
Tetrahydrofuran
Concen: 10.139 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	31.8	26.6	40.0
71	31.2	25.1	37.7

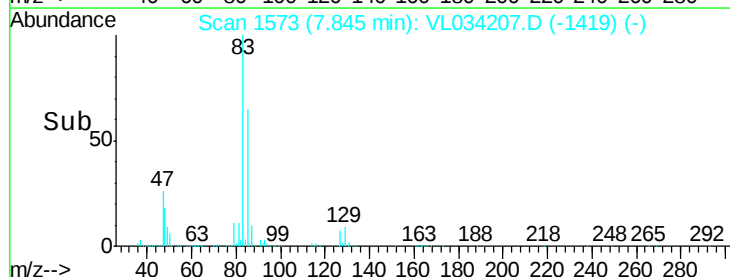
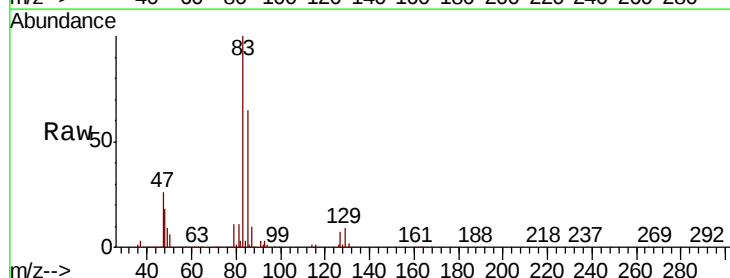
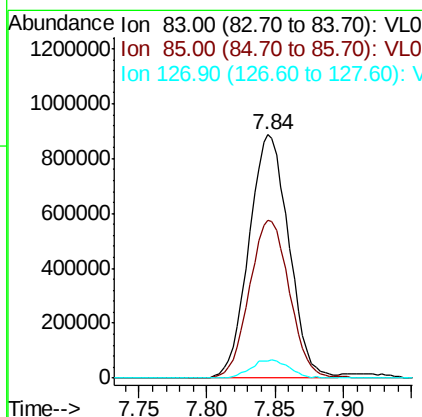
Manual Integrations
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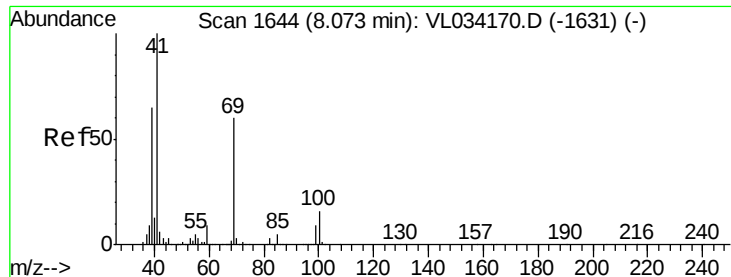
MMDadoda
10/7/2019 12:29:14 PM



#42
Bromodichloromethane
Concen: 10.162 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.4	77.0
127	7.2	5.5	8.3





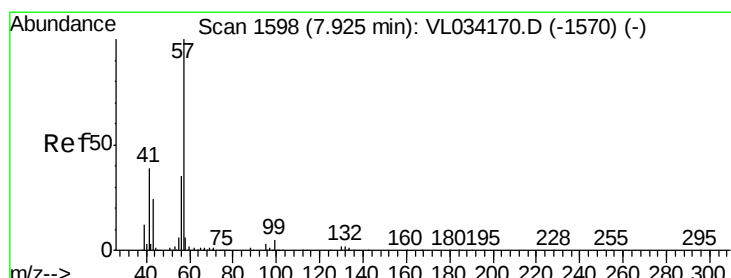
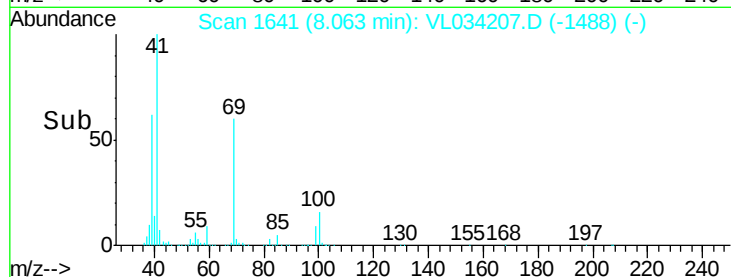
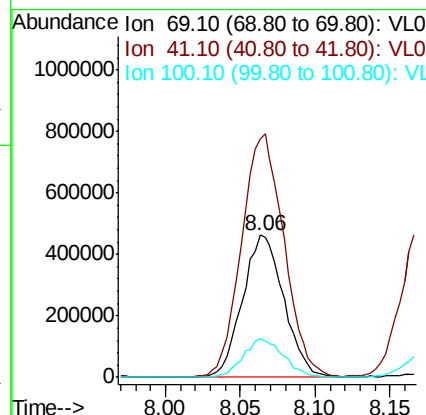
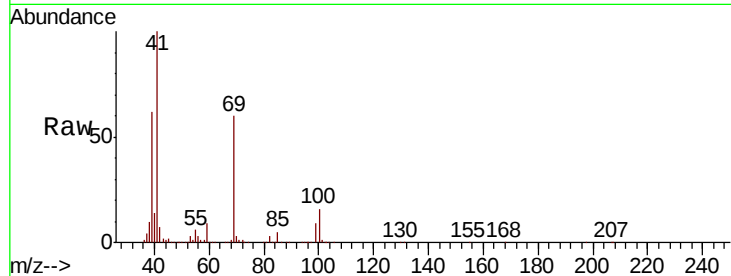
#43
Methvl Methacrylate
Concen: 10.411 ppbv
RT: 8.06 min Scan# 1641
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampled :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	175.1	140.4	210.6
100	26.5	21.9	32.9

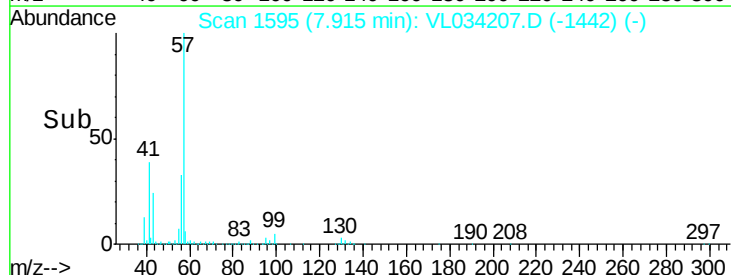
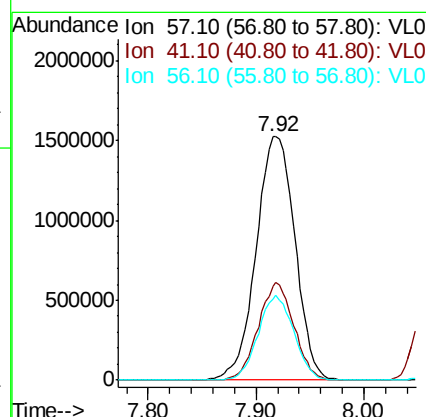
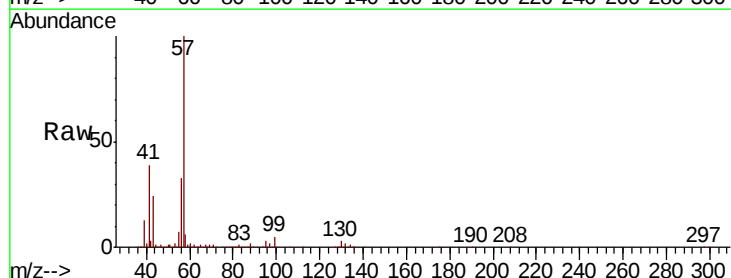
Manual Integrations
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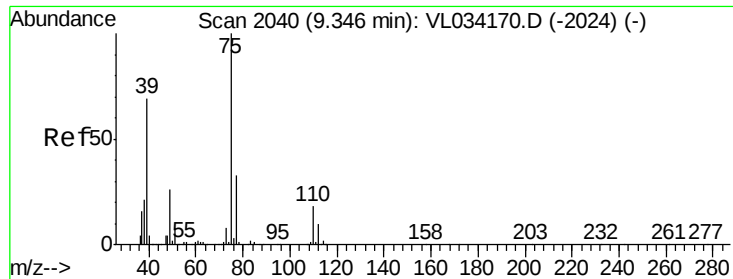
MMDadoda
10/7/2019 12:29:14 PM



#44
2,2,4-Trimethylpentane
Concen: 9.521 ppbv
RT: 7.92 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.8	29.8	44.6
56	32.0	25.9	38.9





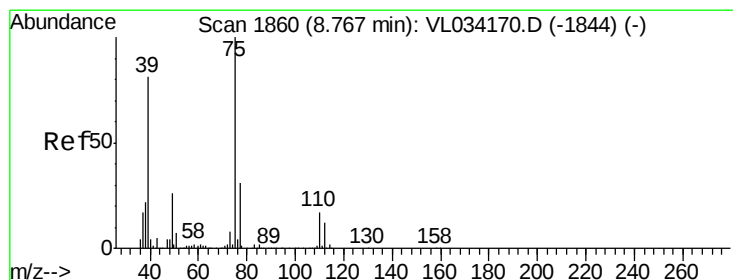
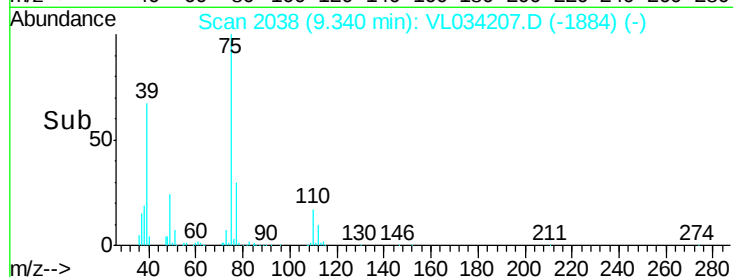
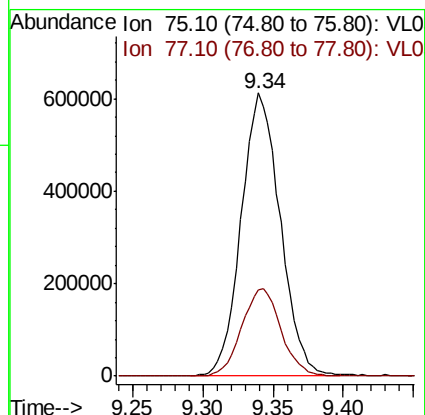
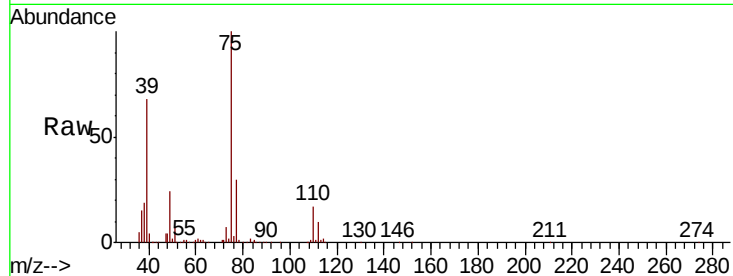
#45
t-1,3-Dichloropropene
Concen: 11.718 ppbv
RT: 9.34 min Scan# 2038
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion: 75 Resp: 1188092
Ion Ratio Lower Upper
75 100
77 30.3 26.2 39.2

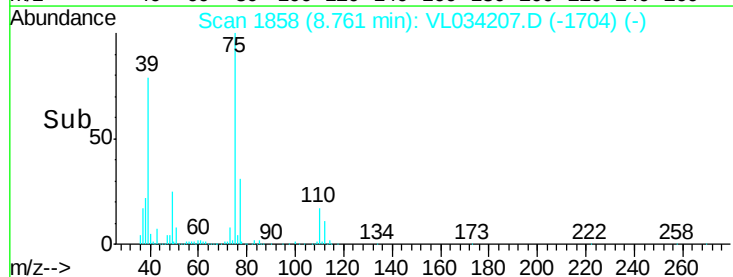
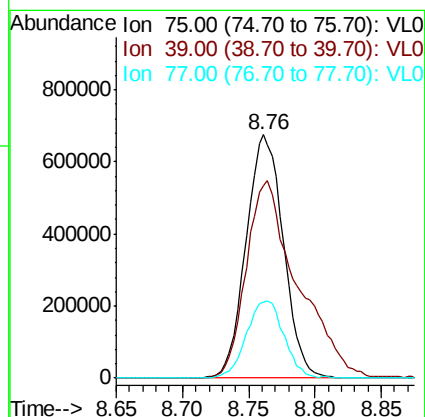
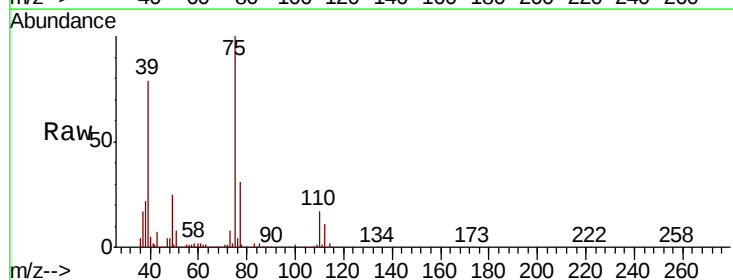
Manual Integrations
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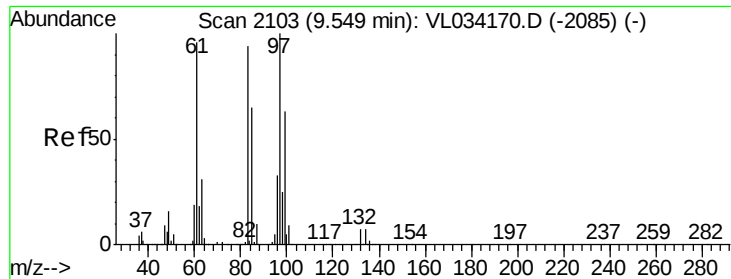
MMDadoda
10/7/2019 12:29:14 PM



#46
cis-1,3-Dichloropropene
Concen: 10.856 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 75 Resp: 1324078
Ion Ratio Lower Upper
75 100
39 79.1 65.0 97.4
77 31.2 24.5 36.7





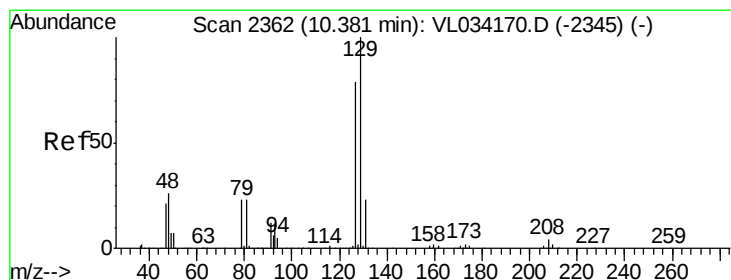
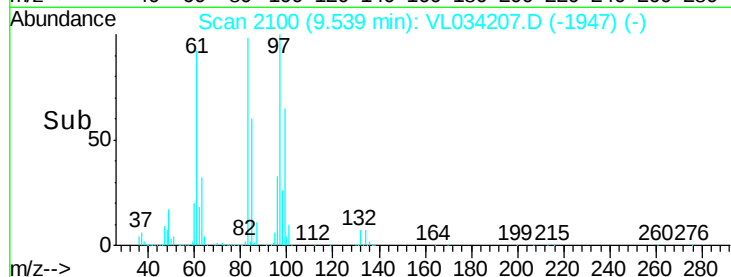
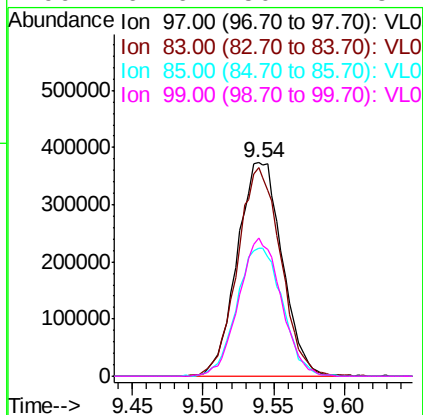
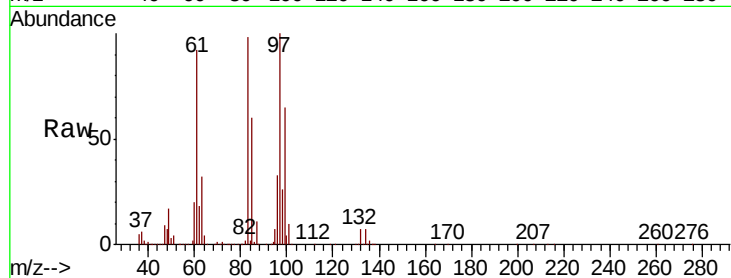
#47
 1,1,2-Trichloroethane
 Concen: 9.868 ppbv m
 RT: 9.54 min Scan# 2100
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	97.8	75.3	112.9
85	60.1	52.1	78.1
99	64.6	50.2	75.2

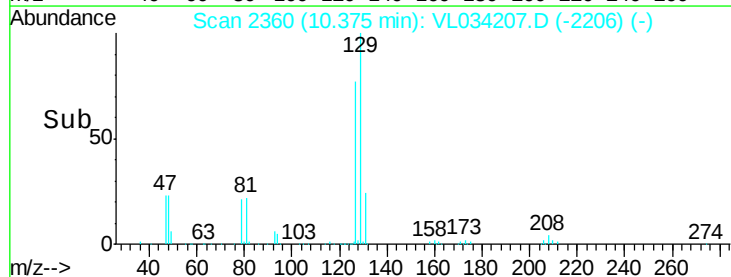
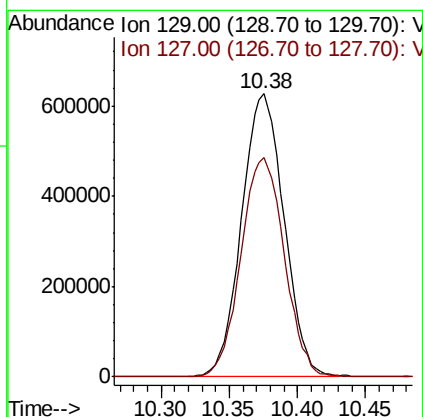
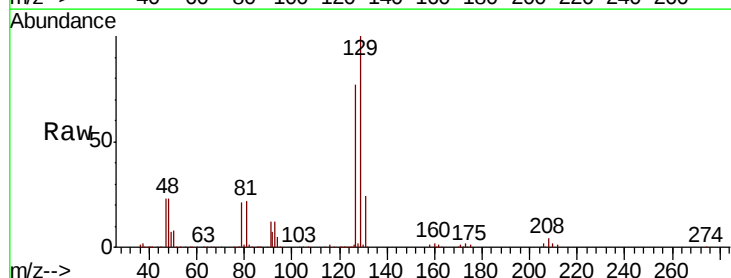
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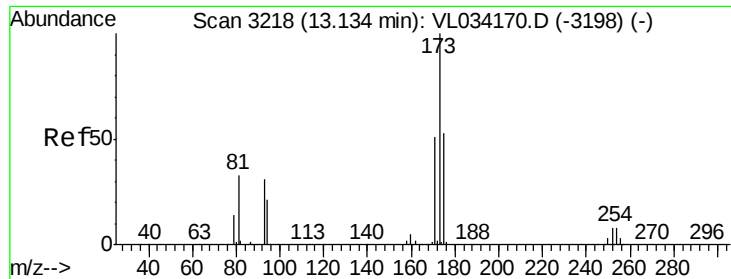
MMDadoda
 10/7/2019 12:29:14 PM



#48
 Dibromochloromethane
 Concen: 10.209 ppbv
 RT: 10.38 min Scan# 2360
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.2	117.6





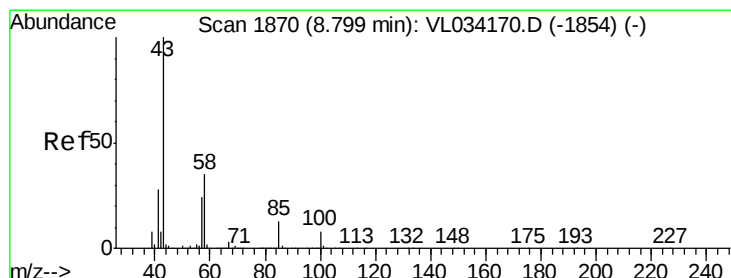
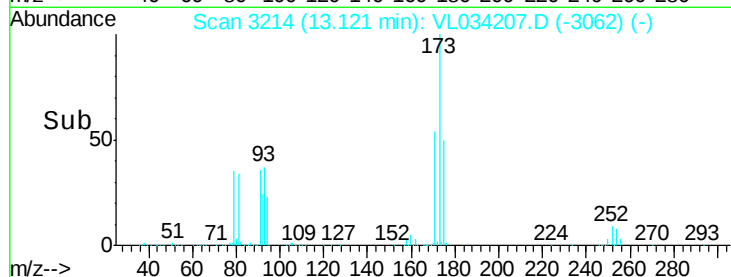
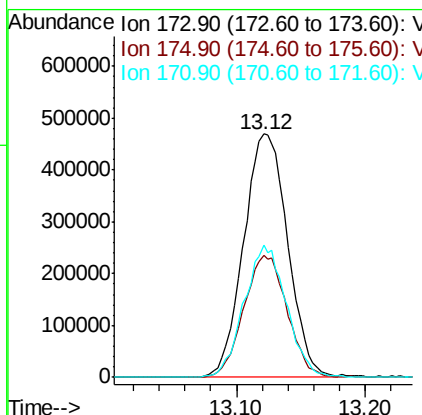
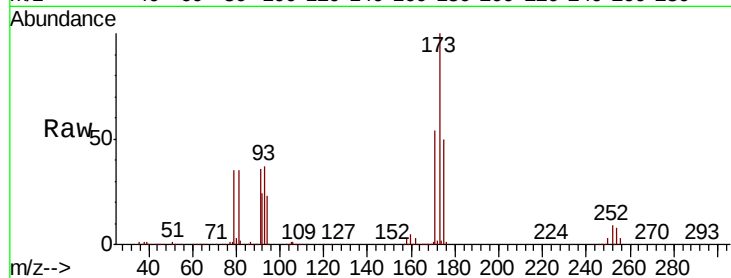
#49
Bromoform
Concen: 10.375 ppbv
RT: 13.12 min Scan# 3214
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion:173 Resp: 1114540
Ion Ratio Lower Upper
173 100
175 49.4 40.3 60.5
171 52.4 42.0 63.0

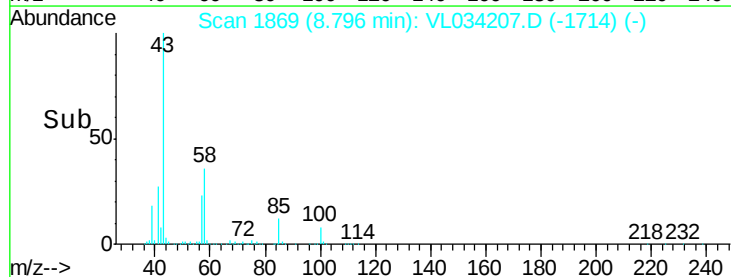
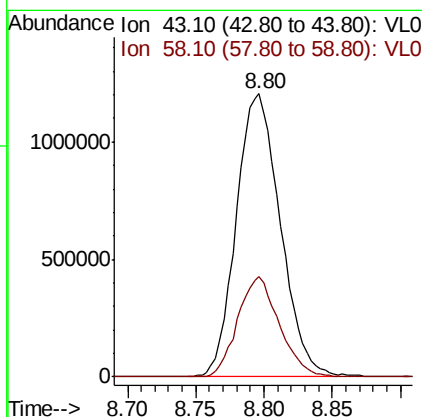
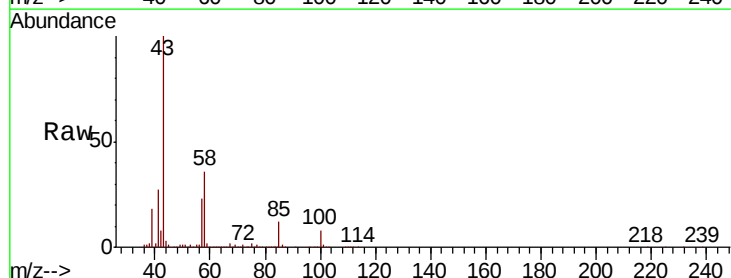
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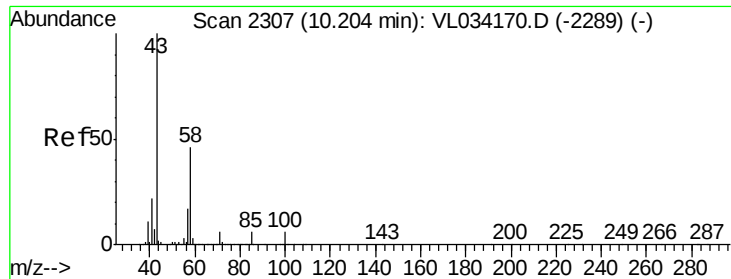
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.645 ppbv
RT: 8.80 min Scan# 1869
Delta R.T. -0.00 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 43 Resp: 2693828
Ion Ratio Lower Upper
43 100
58 33.8 27.6 41.4





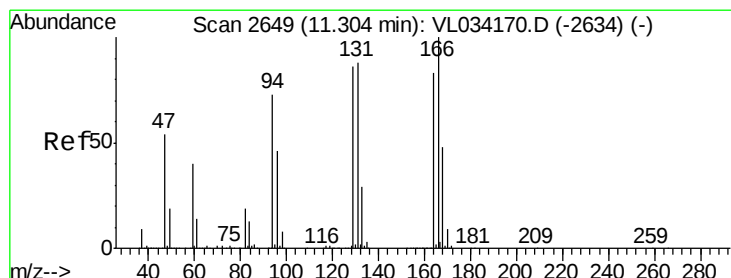
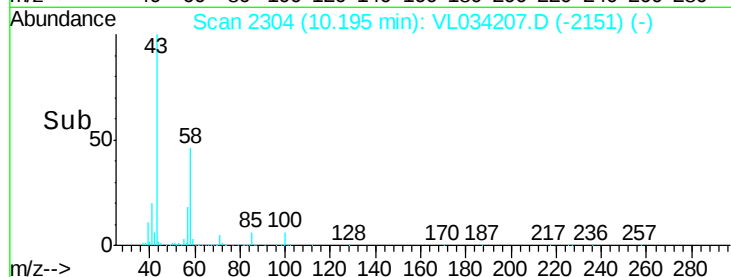
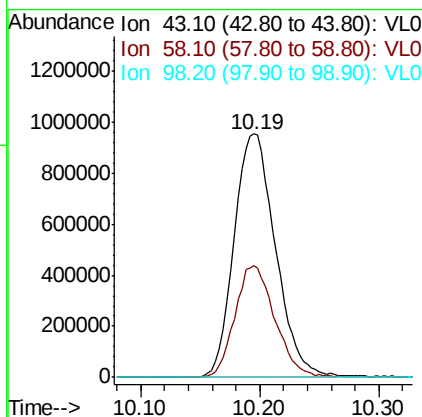
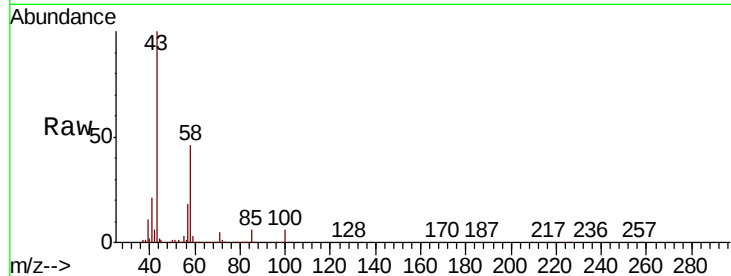
#51
2-Hexanone
Concen: 9.797 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion: 43 Resp: 2296340
Ion Ratio Lower Upper
43 100
58 44.5 36.2 54.4
98 0.1 0.2 0.2#

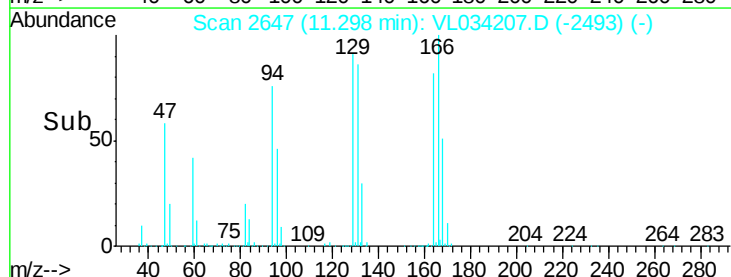
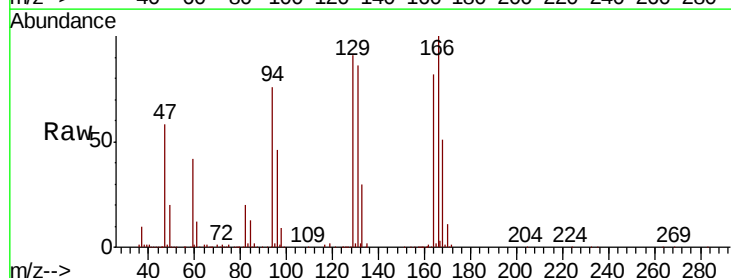
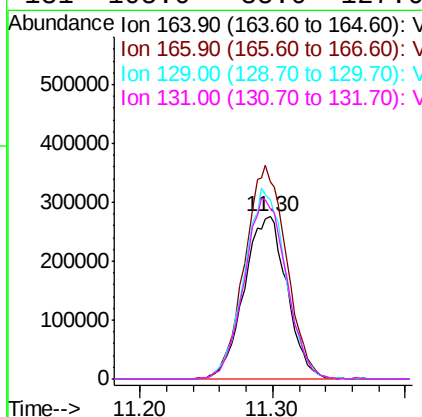
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#52
Tetrachloroethene
Concen: 9.018 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 164 Resp: 618502
Ion Ratio Lower Upper
164 100
166 121.8 96.7 145.1
129 110.2 82.8 124.2
131 105.0 85.0 127.6





#53

Toluene

Concen: 9.839 ppbv

RT: 9.87 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 91 Resp: 2232139

Ion Ratio Lower Upper

91 100

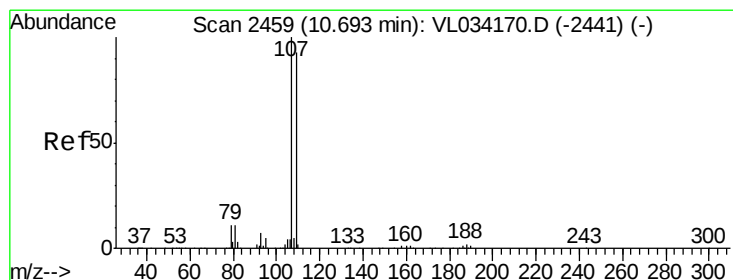
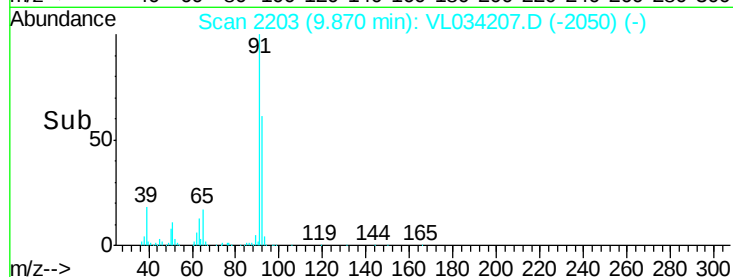
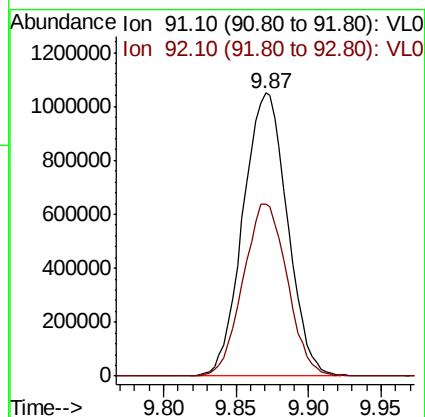
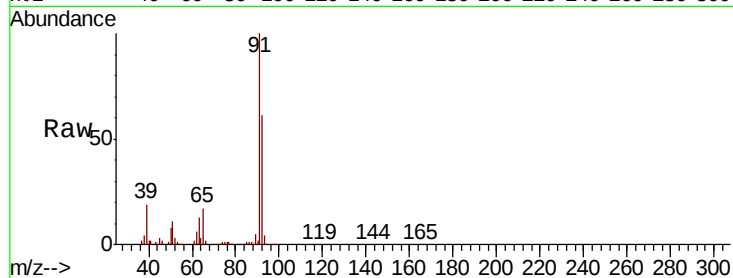
92 60.9 49.0 73.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 9.795 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034207.D

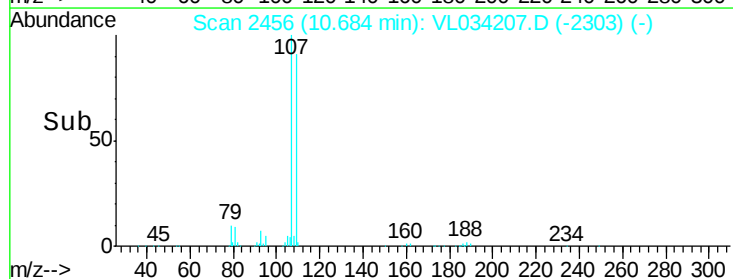
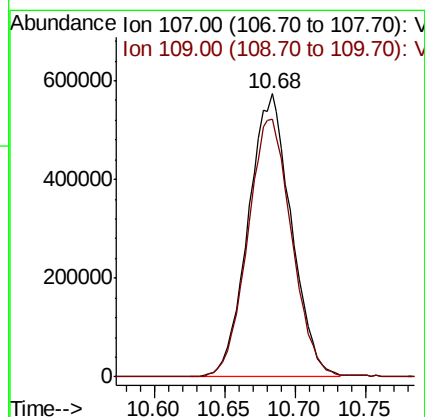
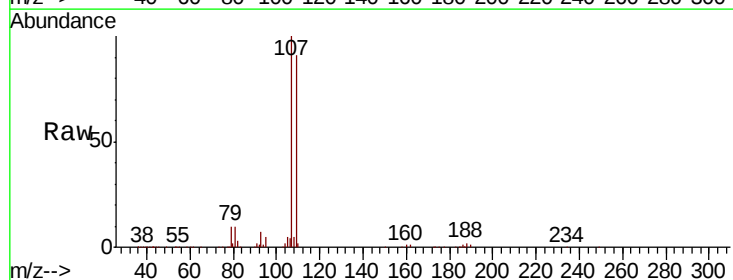
Acq: 2 Oct 2019 11:53

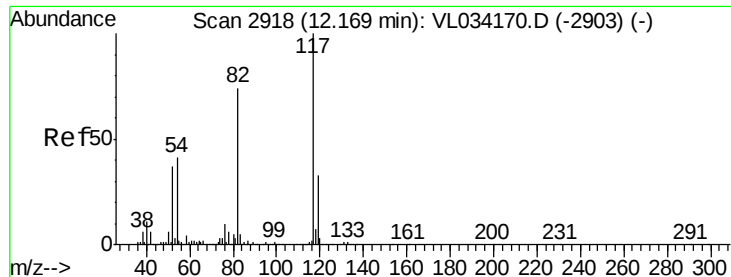
Tgt Ion: 107 Resp: 1219981

Ion Ratio Lower Upper

107 100

109 90.8 74.5 111.7





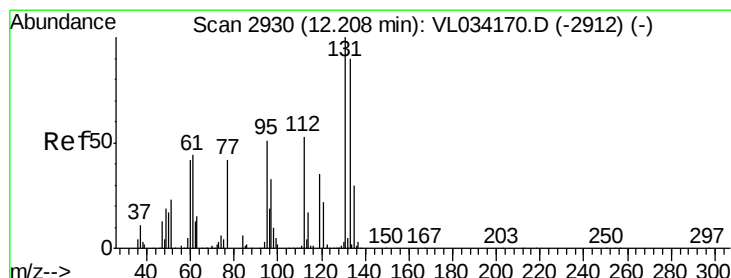
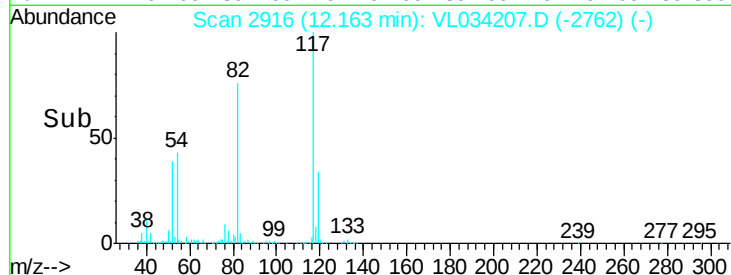
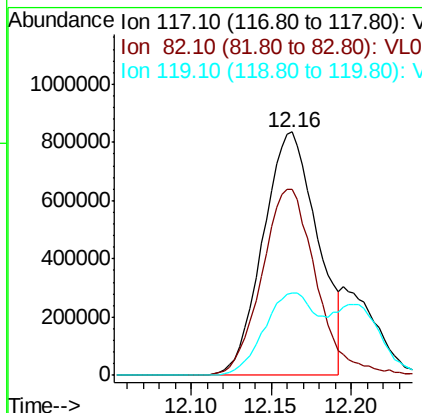
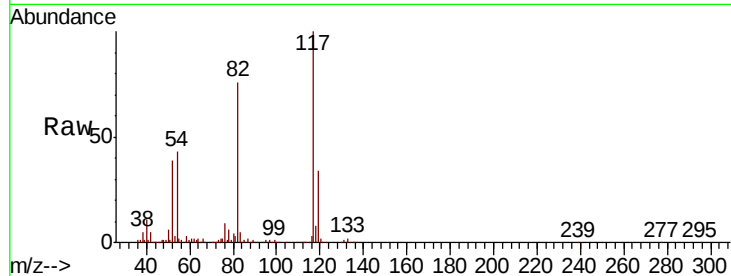
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion:117 Resp: 1981469
Ion Ratio Lower Upper
117 100
82 76.7 58.2 87.4
119 34.2 23.7 35.5

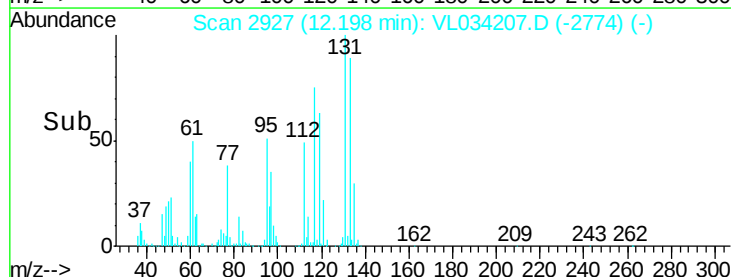
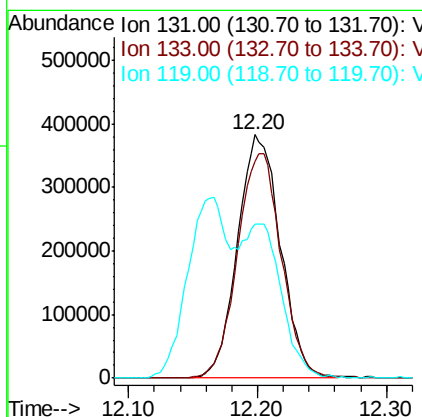
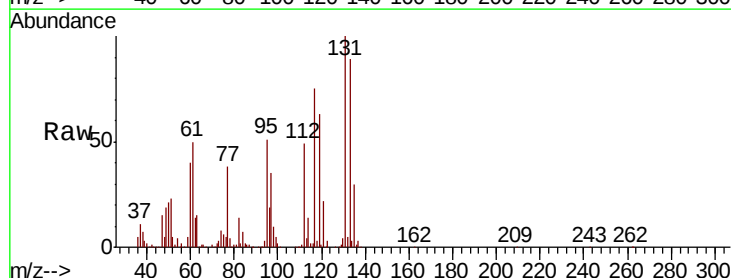
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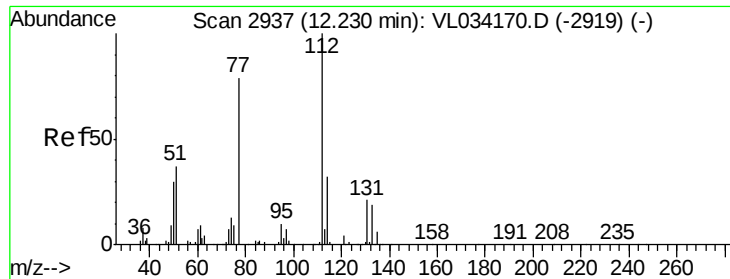
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.017 ppbv
RT: 12.20 min Scan# 2927
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion:131 Resp: 885179
Ion Ratio Lower Upper
131 100
133 94.7 75.1 112.7
119 55.6 47.4 71.0





#57

Chlorobenzene

Concen: 9.155 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion:112 Resp: 1579342

Ion Ratio Lower Upper

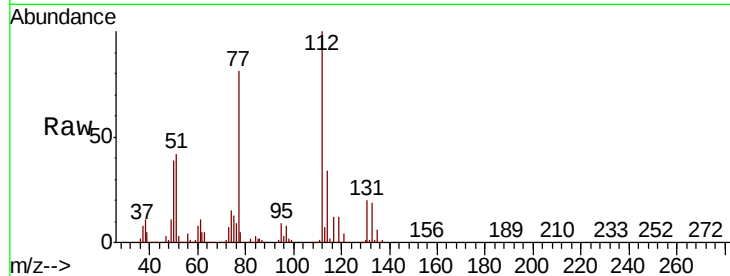
112 100

77 80.4 64.3 96.5

114 34.3 28.9 35.3

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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V

12.22

800000

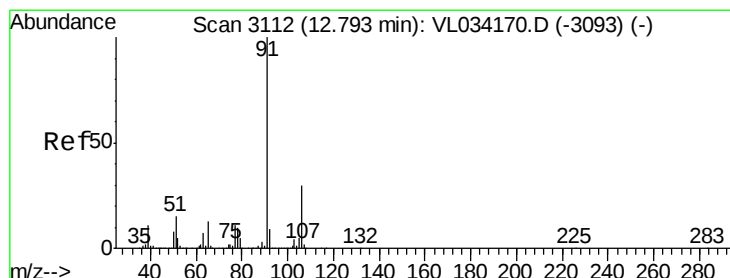
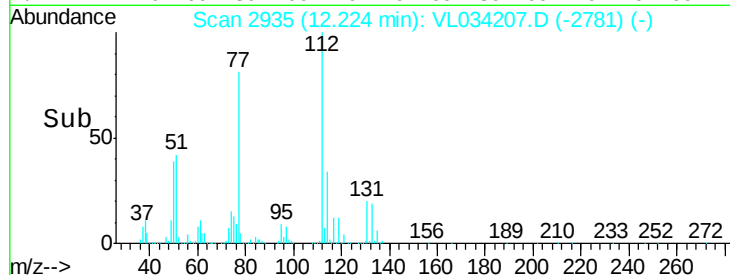
600000

400000

200000

0

Time-->



#58

Ethyl Benzene

Concen: 9.615 ppbv

RT: 12.79 min Scan# 3110

Delta R.T. -0.01 min

Lab File: VL034207.D

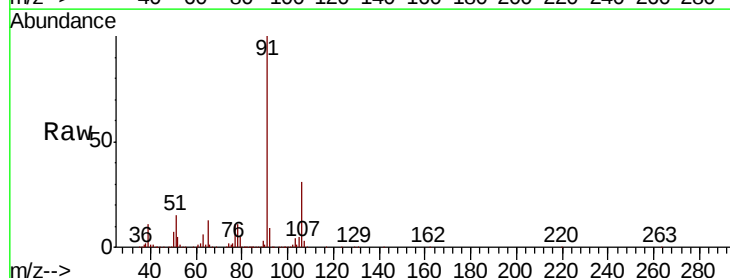
Acq: 2 Oct 2019 11:53

Tgt Ion: 91 Resp: 3074018

Ion Ratio Lower Upper

91 100

106 30.6 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

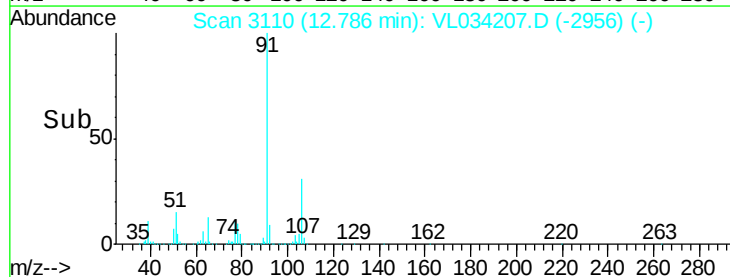
1500000

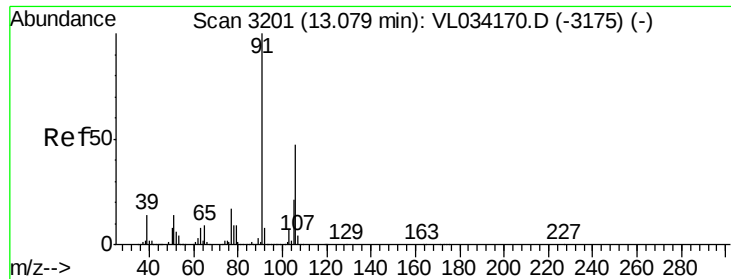
1000000

500000

0

Time-->





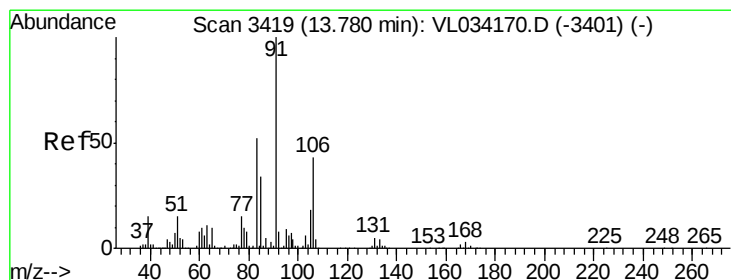
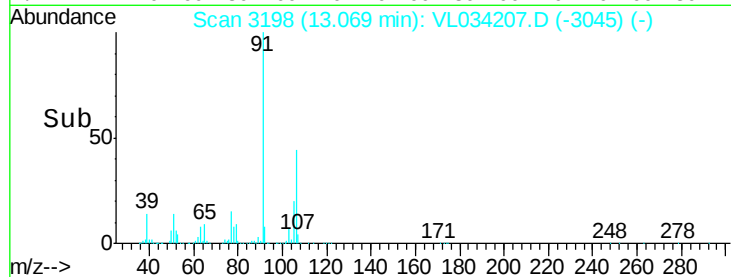
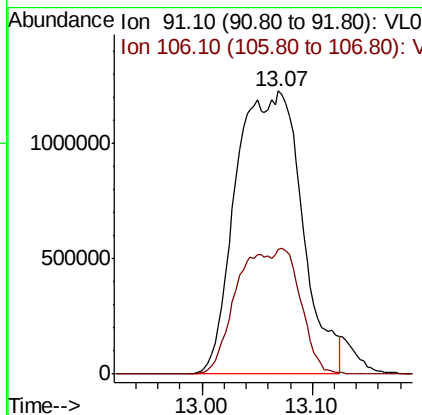
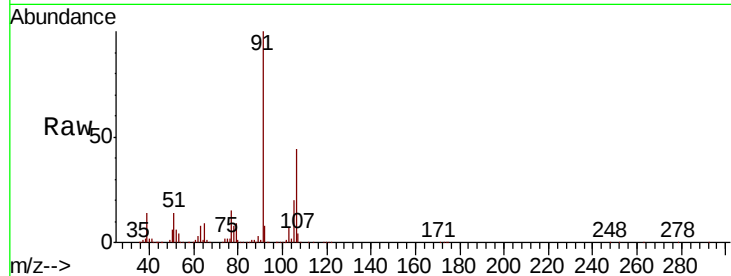
#59
m/p-Xylene
Concen: 19.258 ppbv m
RT: 13.07 min Scan# 3198
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion: 91 Resp: 5099667
Ion Ratio Lower Upper
91 100
106 42.3 35.5 53.3

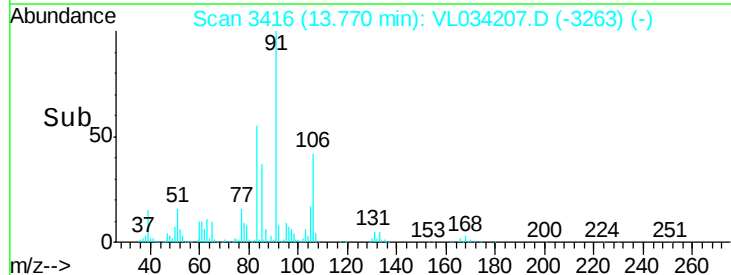
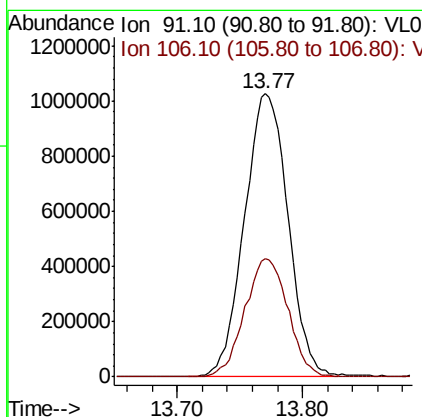
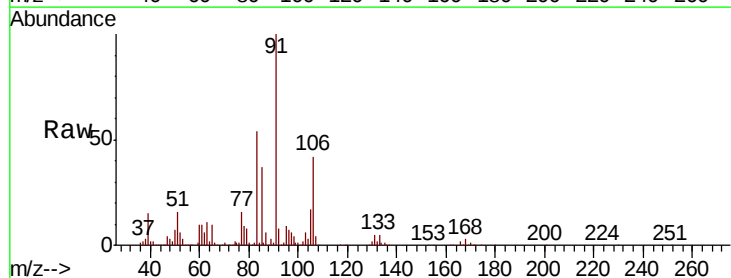
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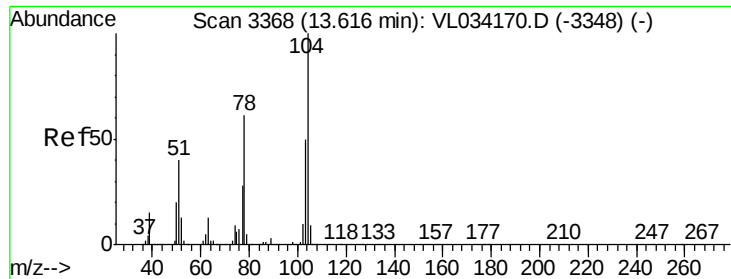
MMDadoda
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#60
o-Xylene
Concen: 9.374 ppbv
RT: 13.77 min Scan# 3416
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion: 91 Resp: 2482180
Ion Ratio Lower Upper
91 100
106 41.6 21.2 63.6





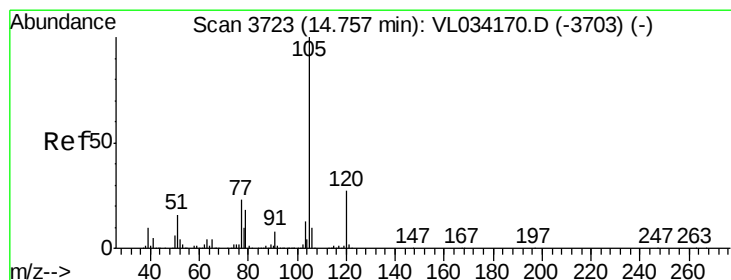
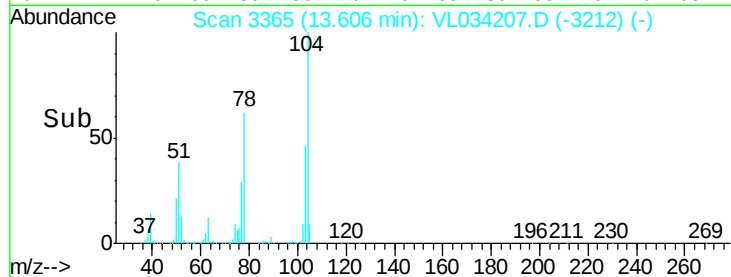
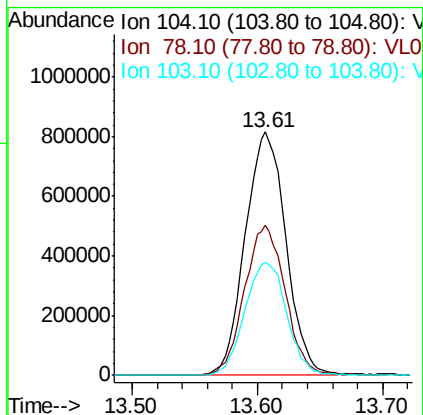
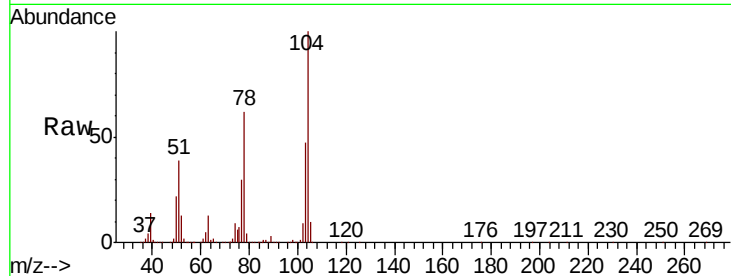
#61
Stvrene
Concen: 9.709 ppbv
RT: 13.61 min Scan# 3365
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	61.4	49.7	74.5
103	47.7	38.4	57.6

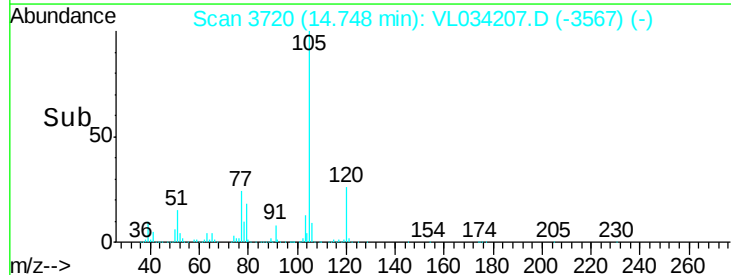
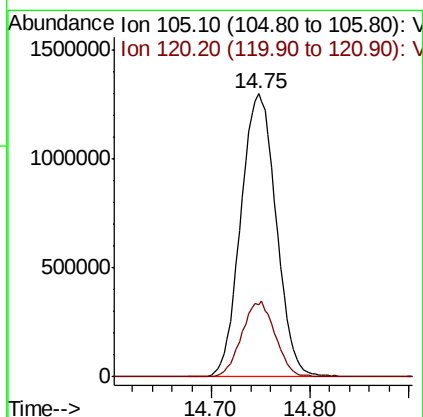
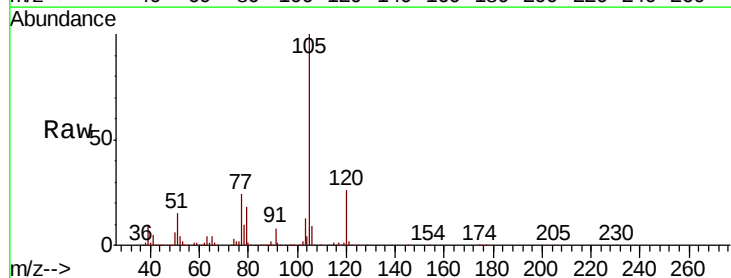
Manual Integrations
APPROVED

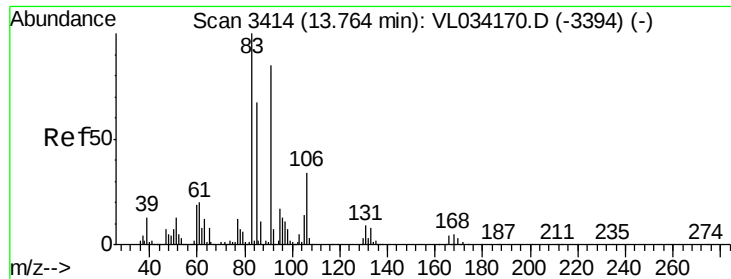
MMDadoda
10/7/2019 12:29:14 PM



#62
Isopropylbenzene
Concen: 9.383 ppbv
RT: 14.75 min Scan# 3720
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 8.447 ppbv

RT: 13.76 min Scan# 3412

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 83 Resp: 1834120

Ion Ratio Lower Upper

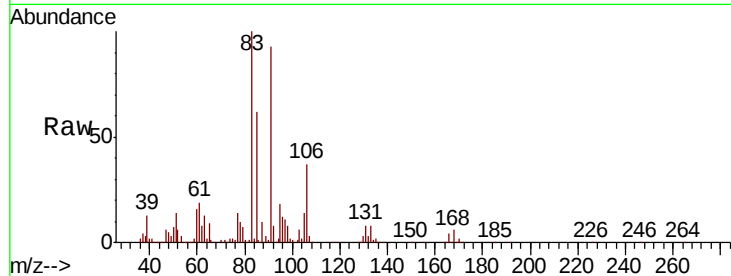
83 100

131 8.2 4.3 12.8

85 64.3 32.8 98.4

Manual Integrations
APPROVED

MMDadoda
10/7/2019 12:29:14 PM



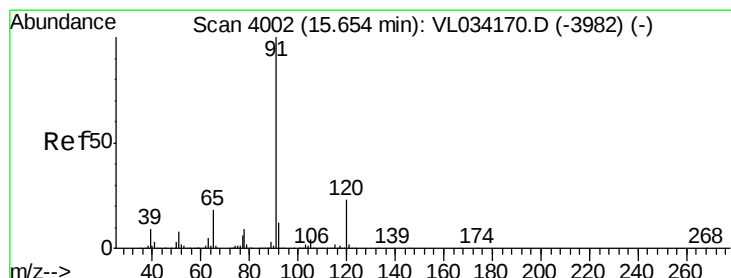
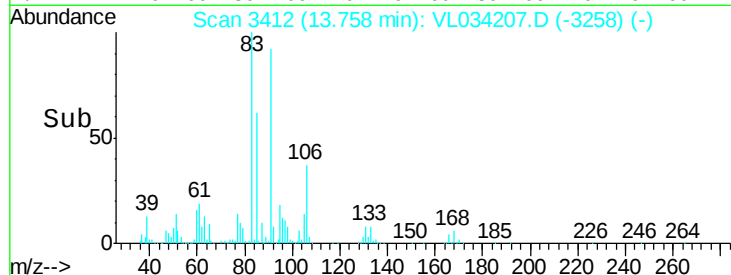
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

13.76

Time-->



#64

n-propylbenzene

Concen: 9.550 ppbv

RT: 15.64 min Scan# 3998

Delta R.T. -0.01 min

Lab File: VL034207.D

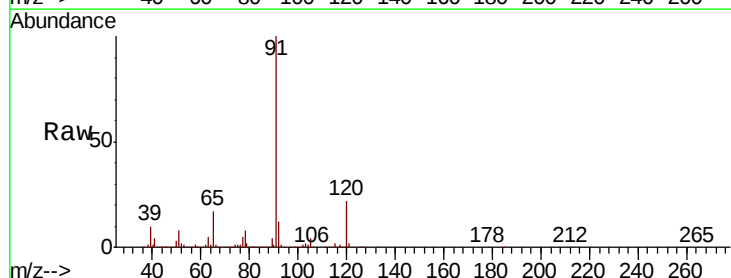
Acq: 2 Oct 2019 11:53

Tgt Ion:120 Resp: 828175

Ion Ratio Lower Upper

120 100

91 492.2 378.2 567.2

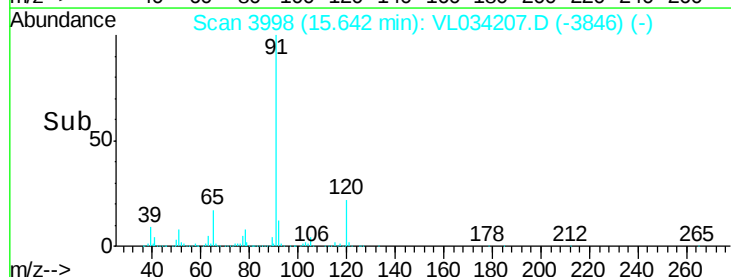


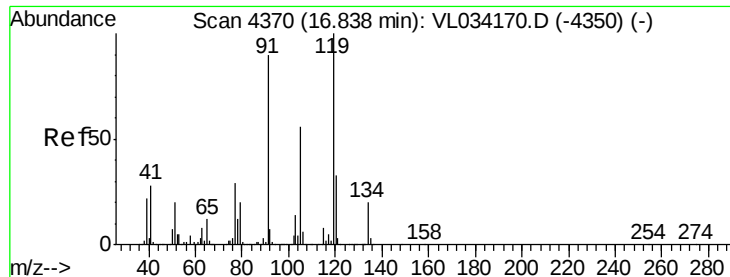
Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

15.64

Time-->





#65

tert-Butylbenzene

Concen: 9.131 ppbv

RT: 16.83 min Scan# 4367

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampled :

VL1002ABS01

Tot Ion:119 Resp: 2734930

Ion Ratio Lower Upper

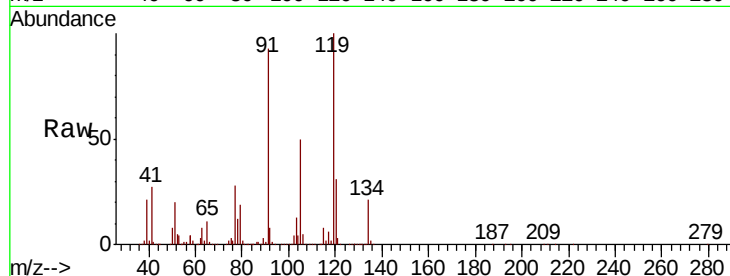
119 100

91 93.2 74.9 112.3

134 19.2 15.8 23.6

Manual Integrations
APPROVED

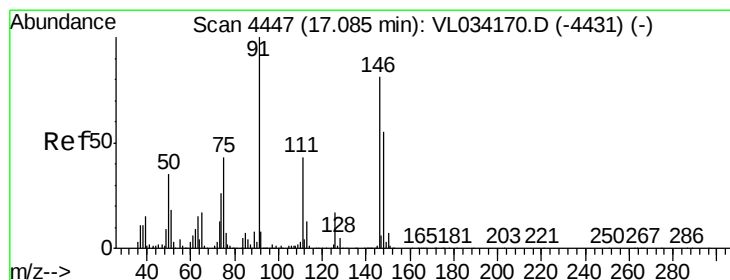
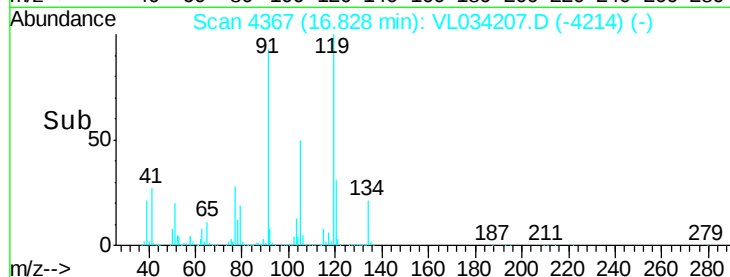
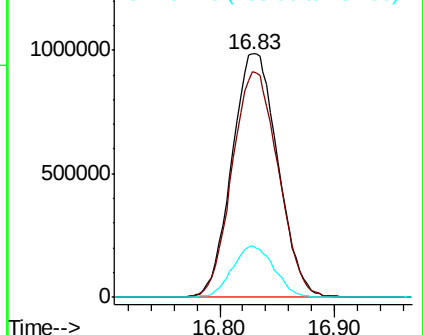
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.705 ppbv

RT: 17.08 min Scan# 4444

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

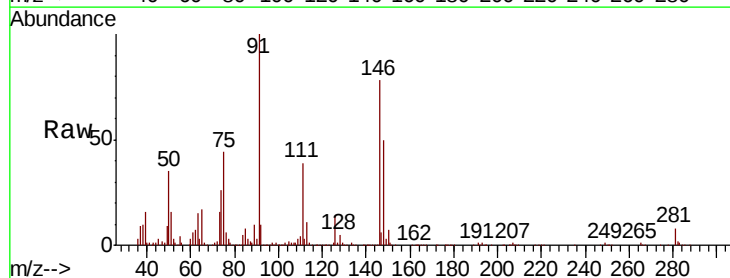
Tgt Ion: 91 Resp: 1346287

Ion Ratio Lower Upper

91 100

126 14.9 12.6 19.0

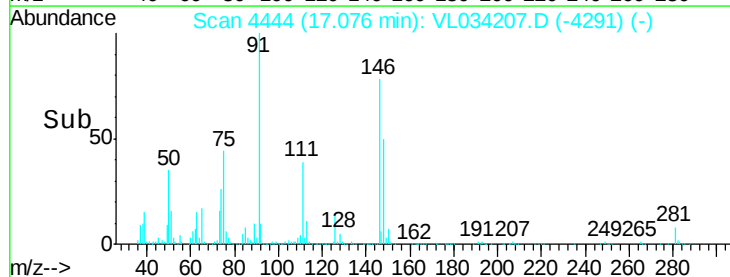
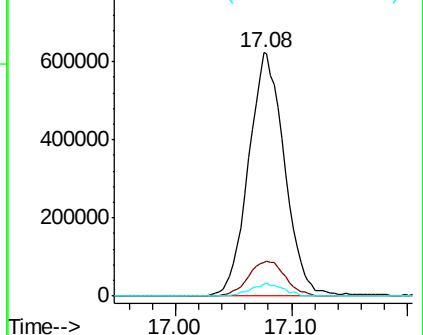
128 4.9 4.0 6.0

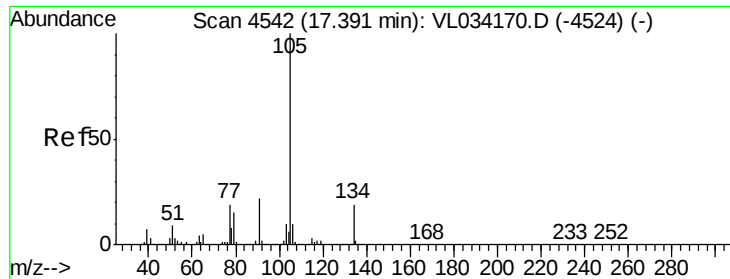


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.221 ppbv

RT: 17.38 min Scan# 4539

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion:105 Resp: 3949033

Ion Ratio Lower Upper

105 100

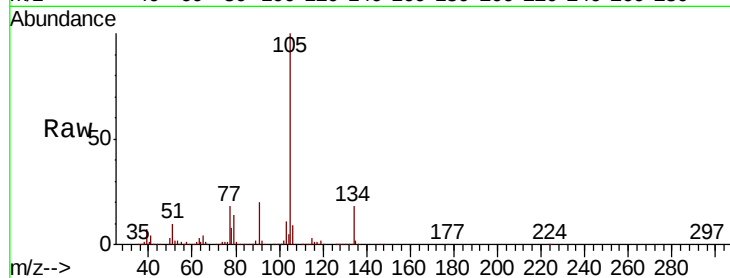
134 18.1 14.6 22.0

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.38

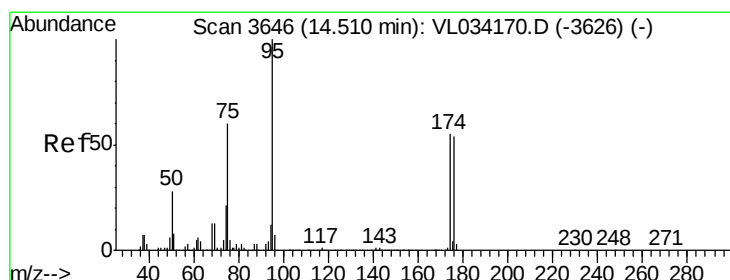
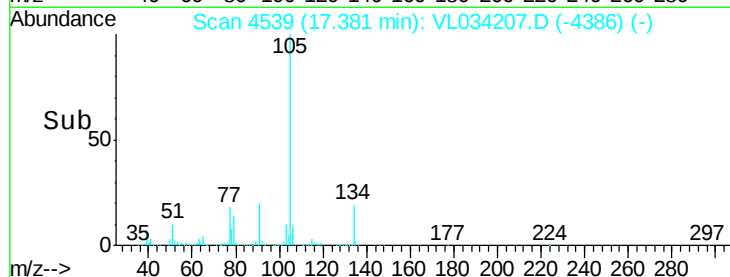
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.000 ppbv

RT: 14.50 min Scan# 3642

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

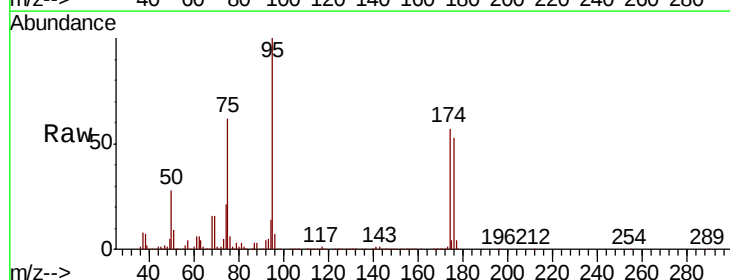
Tgt Ion: 95 Resp: 1721721

Ion Ratio Lower Upper

95 100

174 57.0 45.1 67.7

175 4.1 3.3 4.9



Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1000000

800000

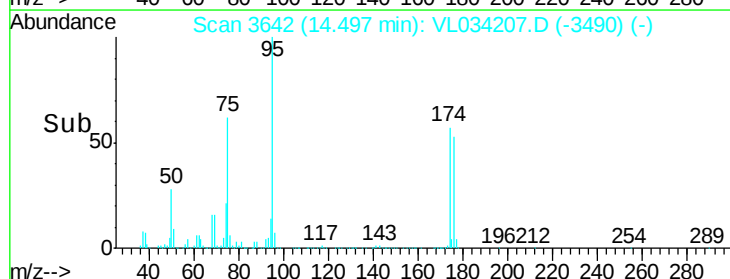
600000

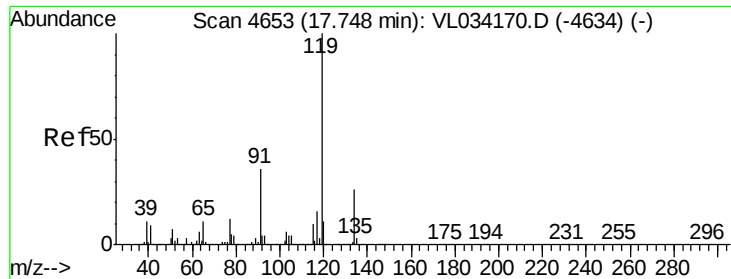
400000

200000

0

Time-->





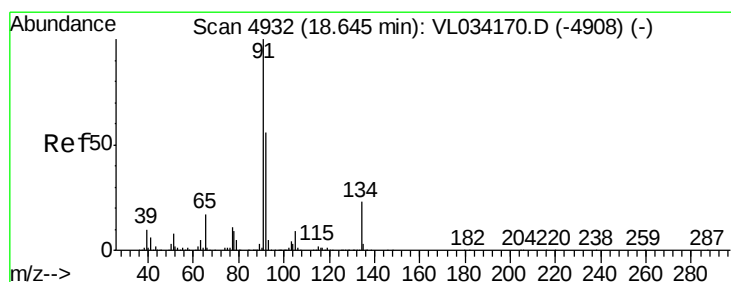
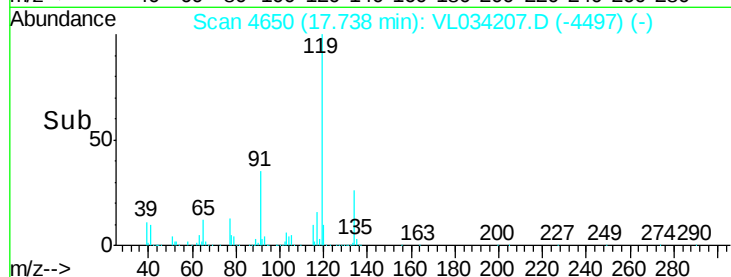
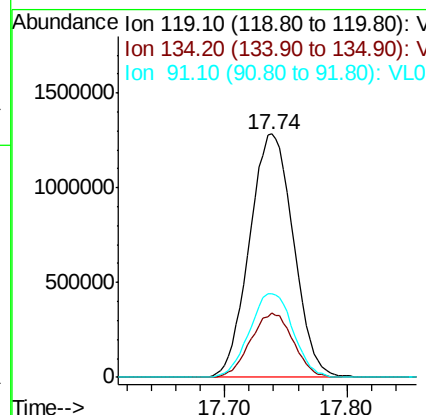
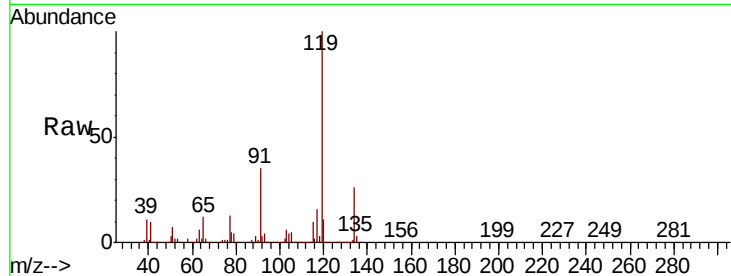
#69
p-Isopropyltoluene
Concen: 9.205 ppbv
RT: 17.74 min Scan# 4650
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	34.3	27.6	41.4

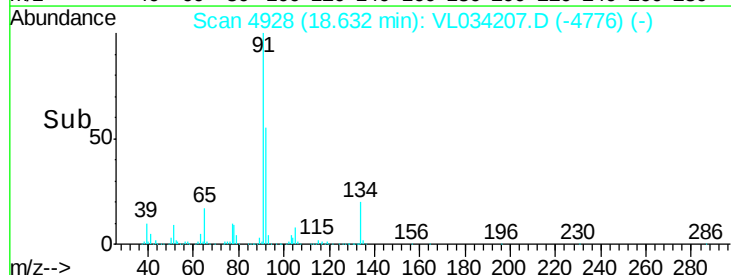
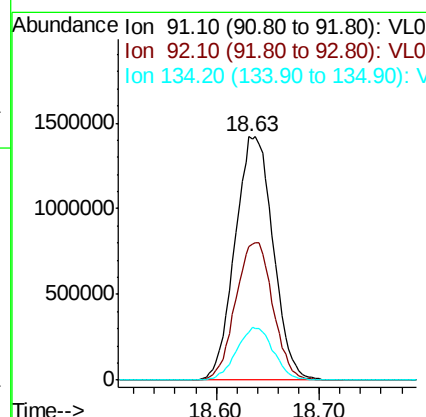
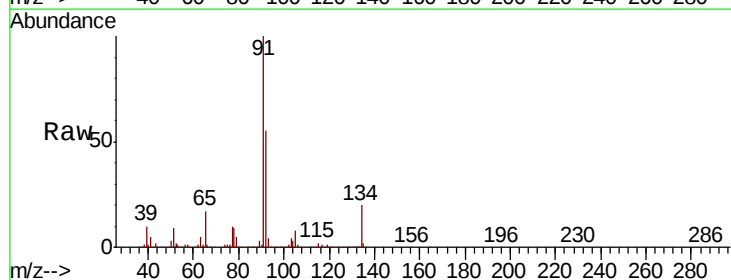
Manual Integrations
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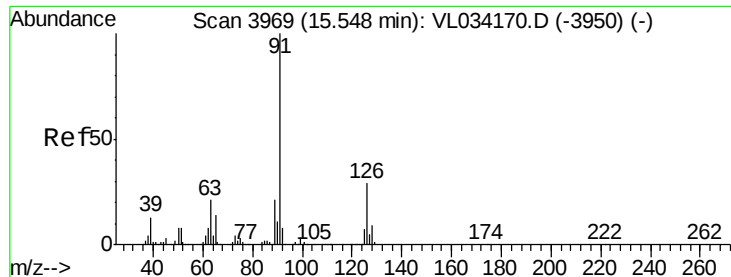
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#70
n-Butylbenzene
Concen: 9.028 ppbv
RT: 18.63 min Scan# 4928
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.5	44.8	67.2
134	21.0	17.3	25.9





#71

2-Chlorotoluene

Concen: 9.318 ppbv

RT: 15.54 min Scan# 3966

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion: 91 Resp: 2609555

Ion Ratio Lower Upper

91 100

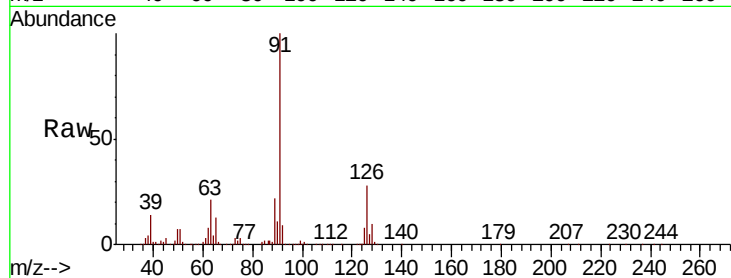
126 28.0 11.2 45.0

Manual Integrations

APPROVED

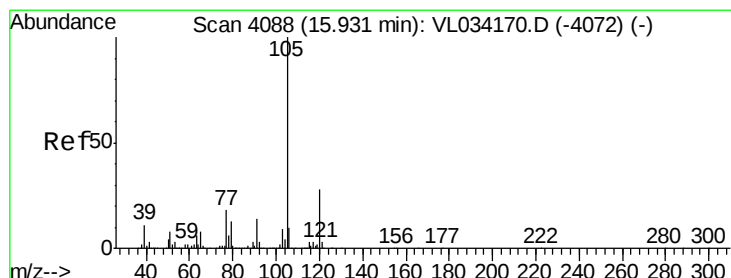
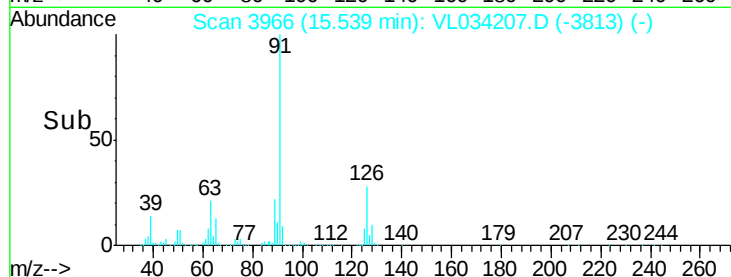
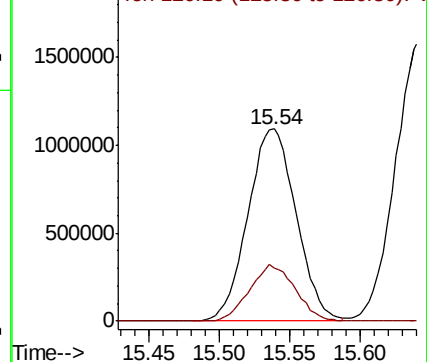
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.540 ppbv

RT: 15.92 min Scan# 4085

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Tgt Ion:105 Resp: 2854079

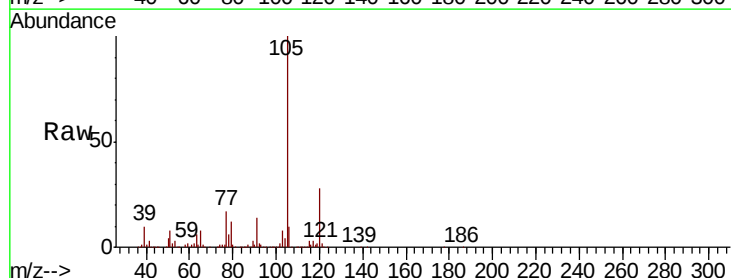
Ion Ratio Lower Upper

105 100

120 28.4 23.3 34.9

91 14.0 11.4 17.2

77 16.8 13.3 19.9

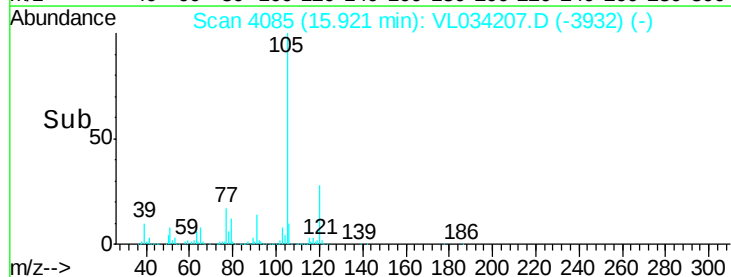
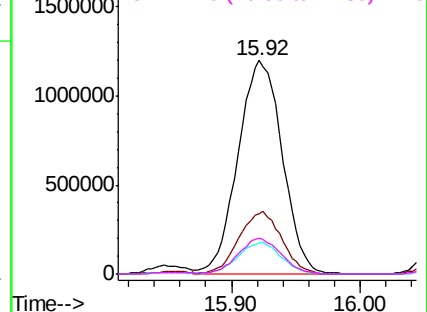


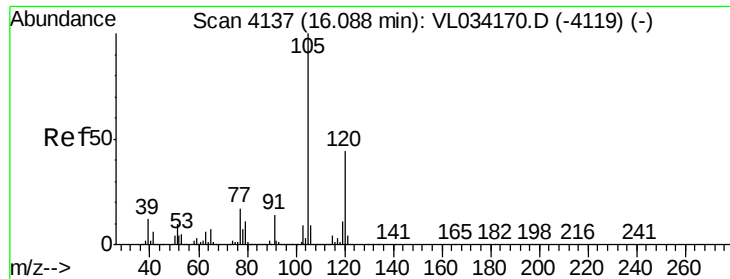
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.414 ppbv

RT: 16.08 min Scan# 4135

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Instrument :

MSVOA_L

ClientSampleId :

VL1002ABS01

Tot Ion:105 Resp: 2720713

Ion Ratio Lower Upper

105 100

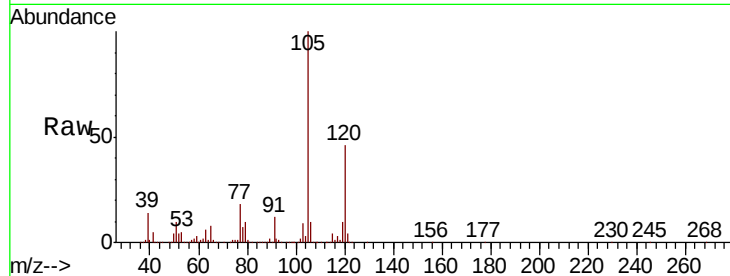
120 46.4 35.6 53.4

Manual Integrations

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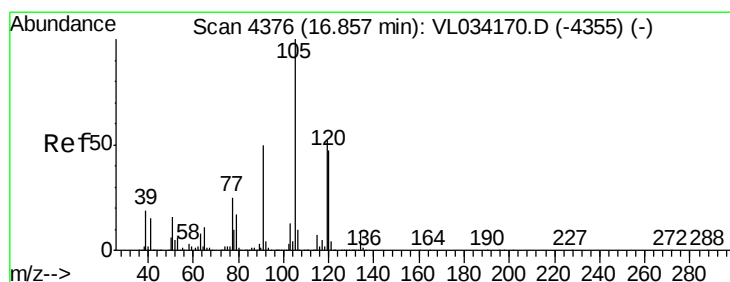
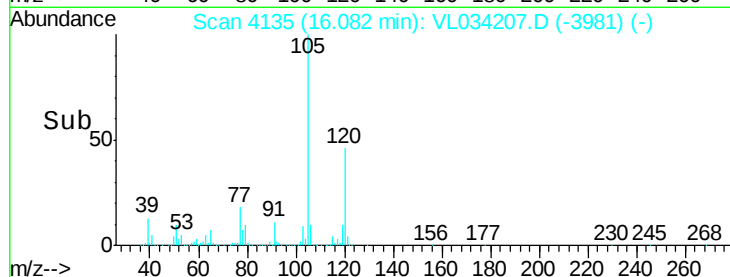
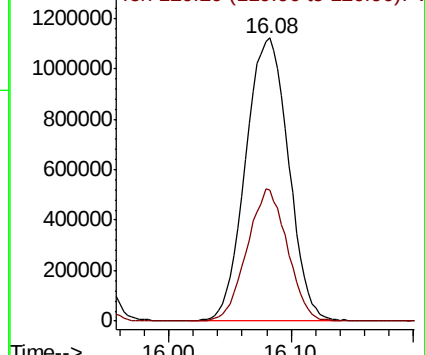
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.844 ppbv

RT: 16.85 min Scan# 4373

Delta R.T. -0.01 min

Lab File: VL034207.D

Acq: 2 Oct 2019 11:53

Tgt Ion:105 Resp: 2714205

Ion Ratio Lower Upper

105 100

120 47.3 37.5 56.3

91 53.8 41.1 61.7

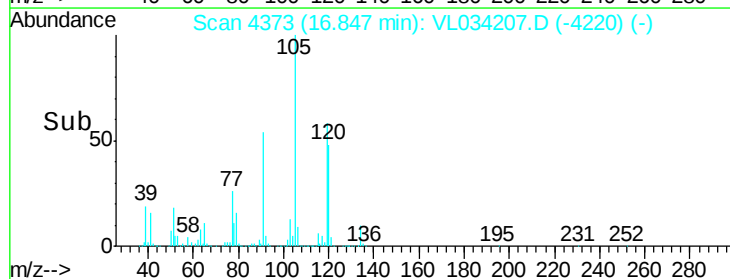
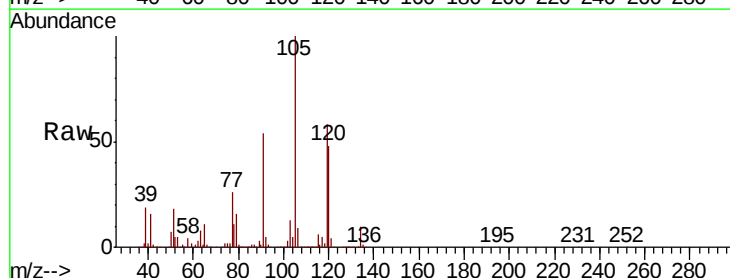
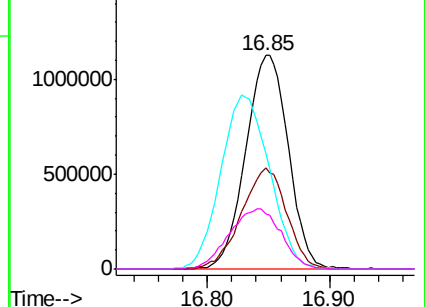
77 25.5 19.9 29.9

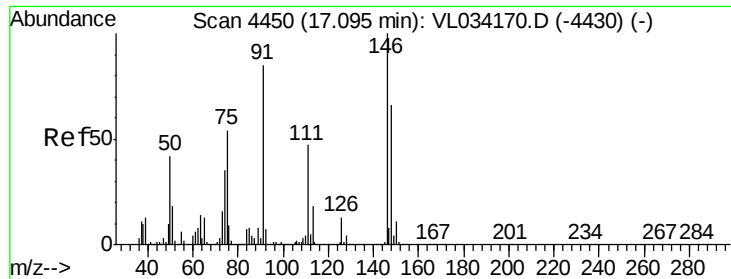
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





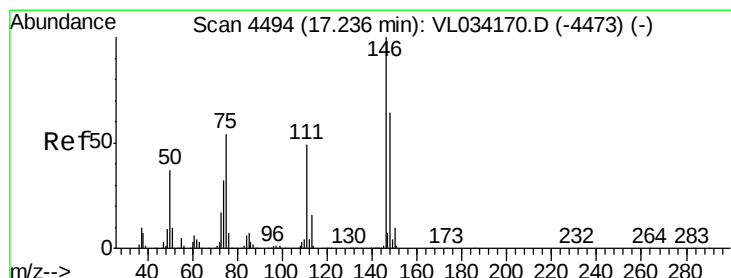
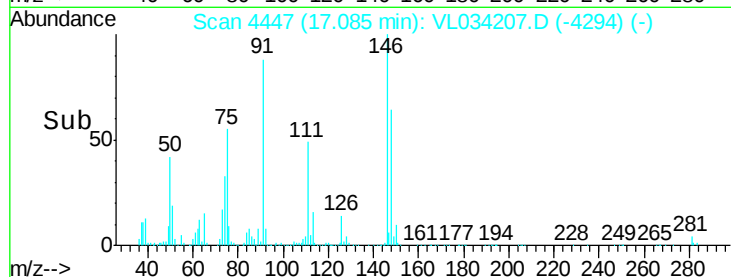
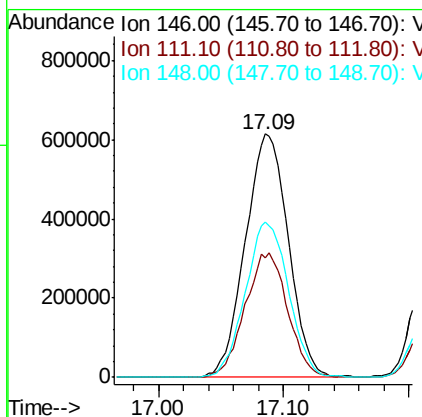
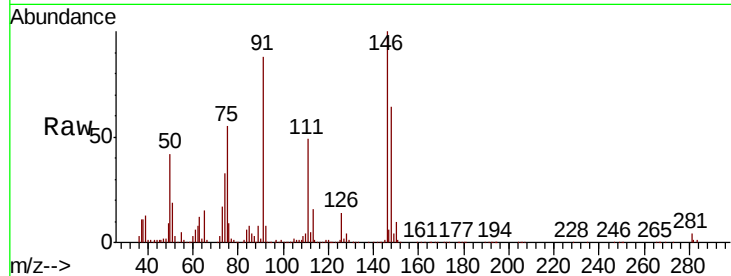
#75
 1,3-Dichlorobenzene
 Concen: 8.926 ppbv
 RT: 17.09 min Scan# 4447
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.9	77.8
148	64.3	32.6	97.7

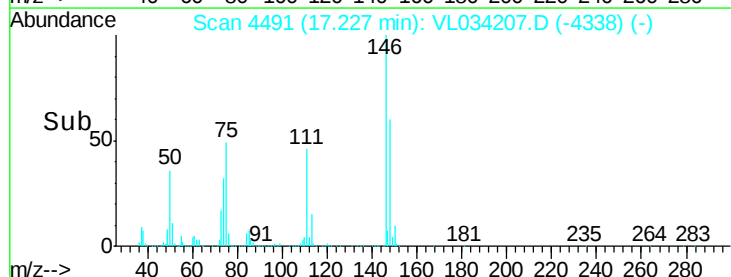
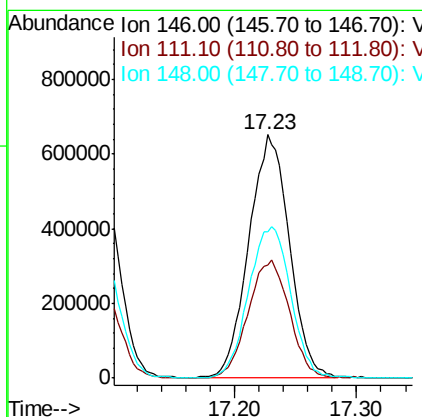
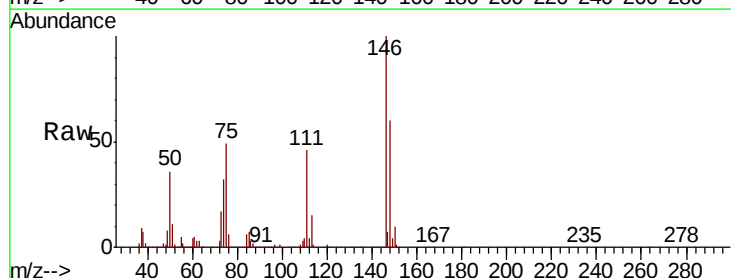
Manual Integrations
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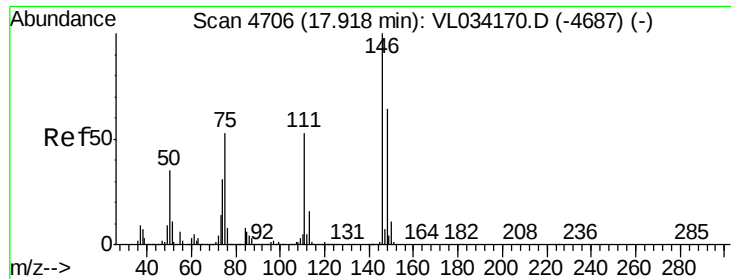
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#76
 1,4-Dichlorobenzene
 Concen: 8.853 ppbv
 RT: 17.23 min Scan# 4491
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.8	24.6	74.0
148	65.5	32.4	97.0





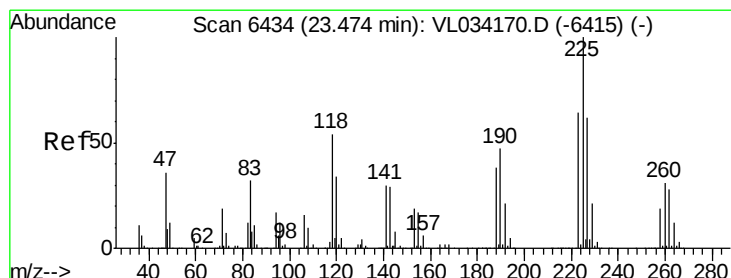
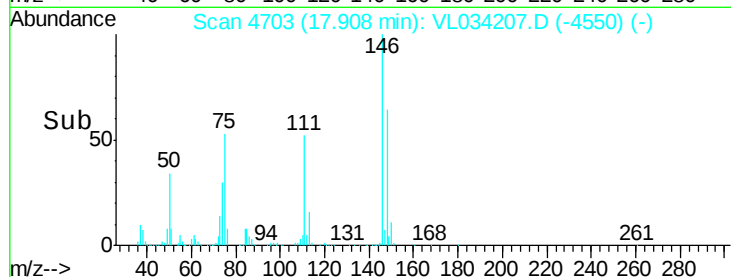
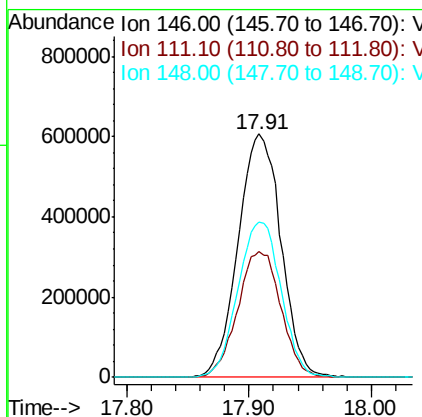
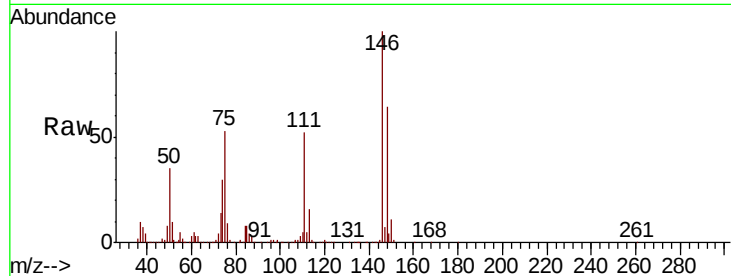
#77
 1,2-Dichlorobenzene
 Concen: 8.832 ppbv
 RT: 17.91 min Scan# 4703
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.5	26.1	78.3
148	64.6	31.9	95.9

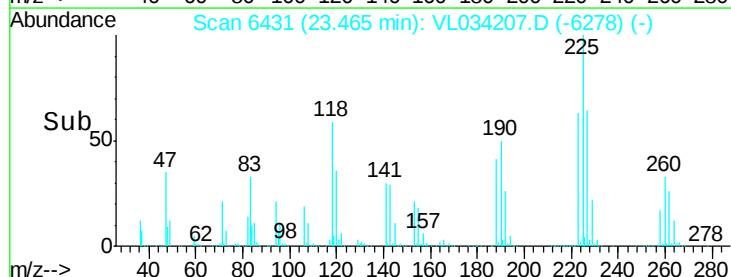
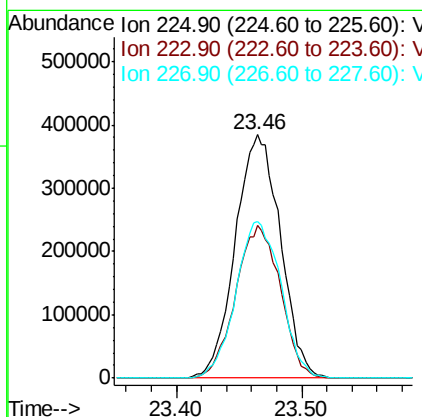
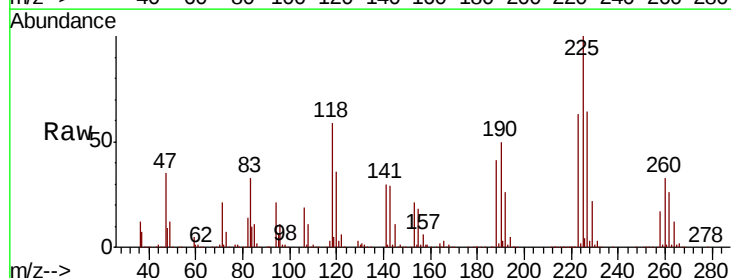
Manual Integrations
 APPROVED

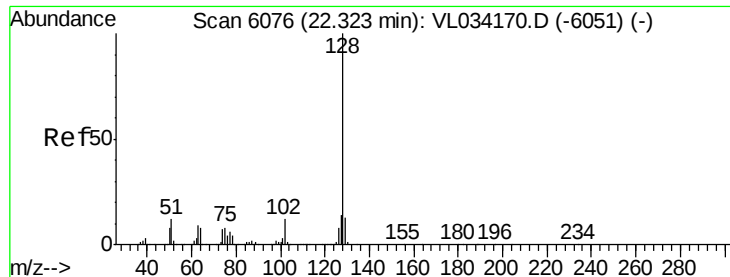
MMDadoda
 10/7/2019 12:29:14 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.667 ppbv
 RT: 23.46 min Scan# 6431
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	51.7	77.5
227	64.4	52.1	78.1





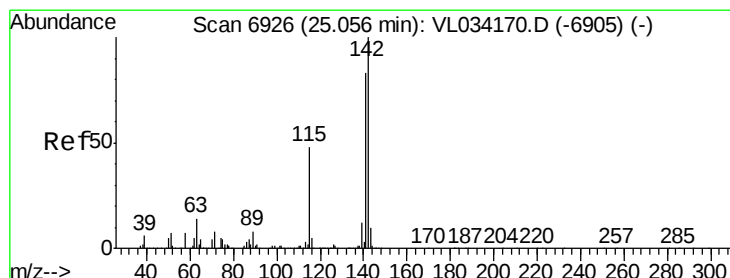
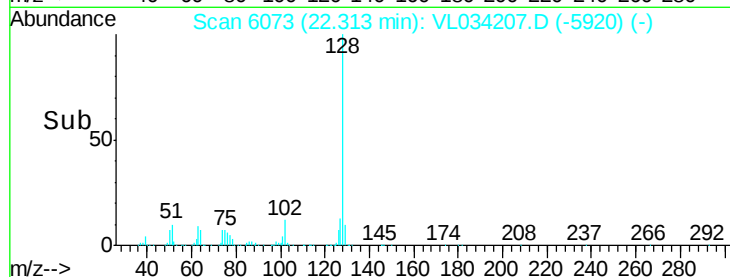
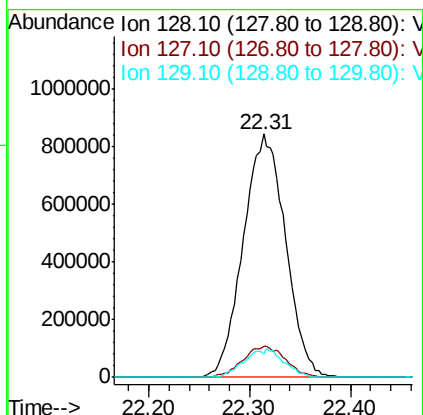
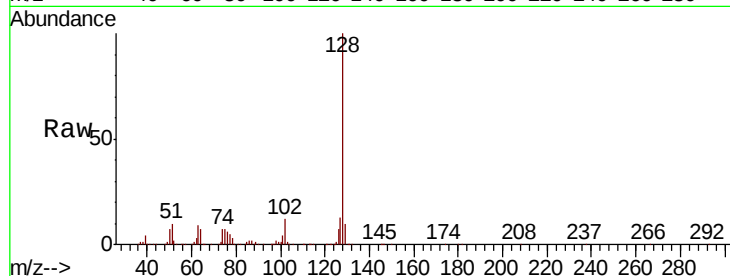
#79
Naphthalene
Concen: 9.071 ppbv
RT: 22.31 min Scan# 6073
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Instrument :
MSVOA_L
ClientSampleId :
VL1002ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	11.1	16.7
129	9.9	10.2	15.4

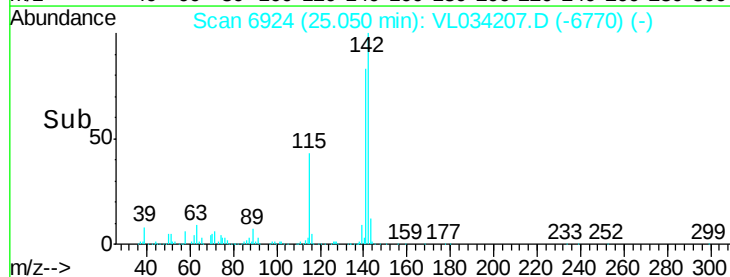
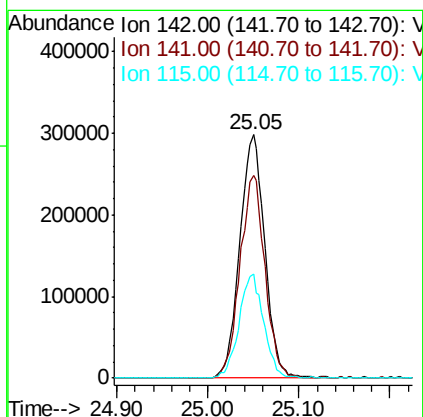
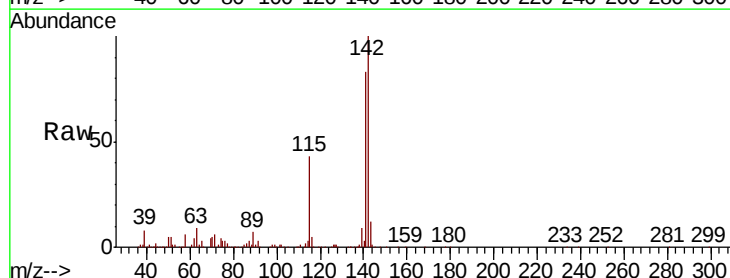
Manual Integrations
APPROVED

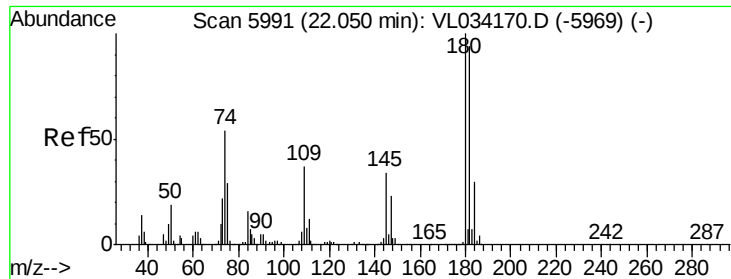
MMDadoda
10/7/2019 12:29:14 PM



#80
Naphthalene, 2-methyl-
Concen: 4.535 ppbv
RT: 25.05 min Scan# 6924
Delta R.T. -0.01 min
Lab File: VL034207.D
Acq: 2 Oct 2019 11:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	67.6	101.4
115	42.2	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.890 ppbv
 RT: 22.04 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL034207.D
 Acq: 2 Oct 2019 11:53

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1002ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.4	116.2
184	30.9	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
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