

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL080519\
 Data File : VL034093.D
 Acq On : 5 Aug 2019 18:07
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:38 PM

Quant Time: Aug 05 19:36:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1142433	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2368513	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2388760m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2028585	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1356350	9.647	ppbv	98
3) Chlorodifluoromethane	2.98	51	1080948	8.182	ppbv	100
4) Chloromethane	3.14	50	701569	8.237	ppbv	98
5) Vinyl Chloride	3.26	62	633243	8.439	ppbv	100
6) Bromomethane	3.48	94	332282	8.569	ppbv	92
7) Chloroethane	3.57	64	229829	8.175	ppbv	98
8) Dichlorotetrafluoroethane	3.19	85	1310218	8.078	ppbv	98
9) Propene	3.01	41	638384	8.197	ppbv	98
10) Heptane	8.19	43	1647287	8.177	ppbv	99
11) Trichlorofluoromethane	3.97	101	1348264	8.088	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.51	101	952010	8.094	ppbv	97
13) Ethanol	3.62	45	109536	4.990	ppbv	95
14) Bromoethene	3.75	108	434368	8.269	ppbv	98
15) Acetone	3.87	43	1159812	7.104	ppbv	100
16) 1,3-Butadiene	3.33	39	659383	8.306	ppbv	99
17) tert-Butyl alcohol	4.32	59	1229490	8.071	ppbv	99
18) 1,1-Dichloroethene	4.31	96	445820	8.014	ppbv	96
19) Isopropyl Alcohol	3.99	45	935887	7.363	ppbv	98
20) Methylene Chloride	4.37	84	393380	8.035	ppbv	96
21) Allyl Chloride	4.44	41	916809	8.114	ppbv	98
22) trans-1,2-Dichloroethene	4.92	96	438414	8.110	ppbv	97
23) Vinyl Acetate	5.11	43	2138558	7.901	ppbv	99
24) 1,1-Dichloroethane	5.05	63	1296495	8.050	ppbv	99
25) Ethyl Acetate	5.72	43	2509137	7.814	ppbv	100
26) Hexane	5.73	57	1084996	7.972	ppbv	98
27) Carbon Disulfide	4.58	76	1204480	8.394	ppbv	99
28) Methyl tert-Butyl Ether	5.07	73	1814130	7.970	ppbv	99
29) Chloroform	5.80	83	1519616	8.213	ppbv	99
30) Cyclohexane	7.20	84	903927	8.407	ppbv	97
31) cis-1,2-Dichloroethene	5.60	61	1094665	8.142	ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	1468948	8.022	ppbv	100
34) 2-Butanone	5.29	43	1739650	7.900	ppbv	99
35) Carbon Tetrachloride	7.08	117	1432975	7.883	ppbv	96
36) Benzene	6.96	78	2153490	8.000	ppbv	98
37) 1,2-Dichloroethane	6.36	62	1185199	8.183	ppbv	99
38) Trichloroethene	7.91	130	741454	7.112	ppbv	97
39) 1,2-Dichloropropane	7.69	63	890563	8.199	ppbv	98
40) 1,4-Dioxane	7.90	88	308750	7.533	ppbv #	99
41) Tetrahydrofuran	6.10	42	1109031	8.187	ppbv	99
42) Bromodichloromethane	7.87	83	1677022	8.259	ppbv	98
43) Methyl Methacrylate	8.08	69	908240	8.225	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3704737	7.686	ppbv	99
45) t-1,3-Dichloropropene	9.36	75	1193300	8.525	ppbv	99
46) cis-1,3-Dichloropropene	8.79	75	1349425	8.353	ppbv	96
47) 1,1,2-Trichloroethane	9.56	97	855181	8.235	ppbv	98
48) Dibromochloromethane	10.40	129	1359708	8.166	ppbv	99
49) Bromoform	13.15	173	1227641	8.246	ppbv	99
50) 4-Methyl-2-Pentanone	8.82	43	2628764	7.844	ppbv	99
51) 2-Hexanone	10.22	43	2248930	7.985	ppbv #	99
52) Tetrachloroethene	11.32	164	730784	7.029	ppbv	97
53) Toluene	9.89	91	2461085	7.922	ppbv	100
54) 1,2-Dibromoethane	10.70	107	1281549	8.146	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.22	131	903091	8.269	ppbv	94
57) Chlorobenzene	12.25	112	1732817	8.055	ppbv	98
58) Ethyl Benzene	12.81	91	3246890	8.083	ppbv	99
59) m/p-Xylene	13.09	91	5234123m	16.234	ppbv	
60) o-Xylene	13.79	91	2573650	7.988	ppbv	100
61) Styrene	13.63	104	2150007	8.407	ppbv	99
62) Isopropylbenzene	14.77	105	3413818	7.893	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.78	83	1828810	7.857	ppbv	100
64) n-propylbenzene	15.67	120	936279	8.190	ppbv	97
65) tert-Butylbenzene	16.85	119	2998539	7.783	ppbv	99
66) Benzyl Chloride	17.10	91	1847132	8.661	ppbv	99
67) sec-Butylbenzene	17.40	105	4201255	7.727	ppbv	100
69) p-Isopropyltoluene	17.76	119	3493154	7.789	ppbv	99
70) n-Butylbenzene	18.66	91	3866318	7.992	ppbv	100
71) 2-Chlorotoluene	15.56	91	2809616	8.079	ppbv	99
72) 4-Ethyltoluene	15.95	105	3097031	8.167	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	2940857	8.061	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	2949326	7.771	ppbv	93
75) 1,3-Dichlorobenzene	17.11	146	1708881	8.039	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	1763804	8.121	ppbv	99
77) 1,2-Dichlorobenzene	17.93	146	1718676	8.201	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1463497	8.810	ppbv	99
79) Naphthalene	22.34	128	2992751	7.593	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	1341224	10.851	ppbv	97
81) 1,2,4-Trichlorobenzene	22.07	180	1702984	7.783	ppbv	100

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

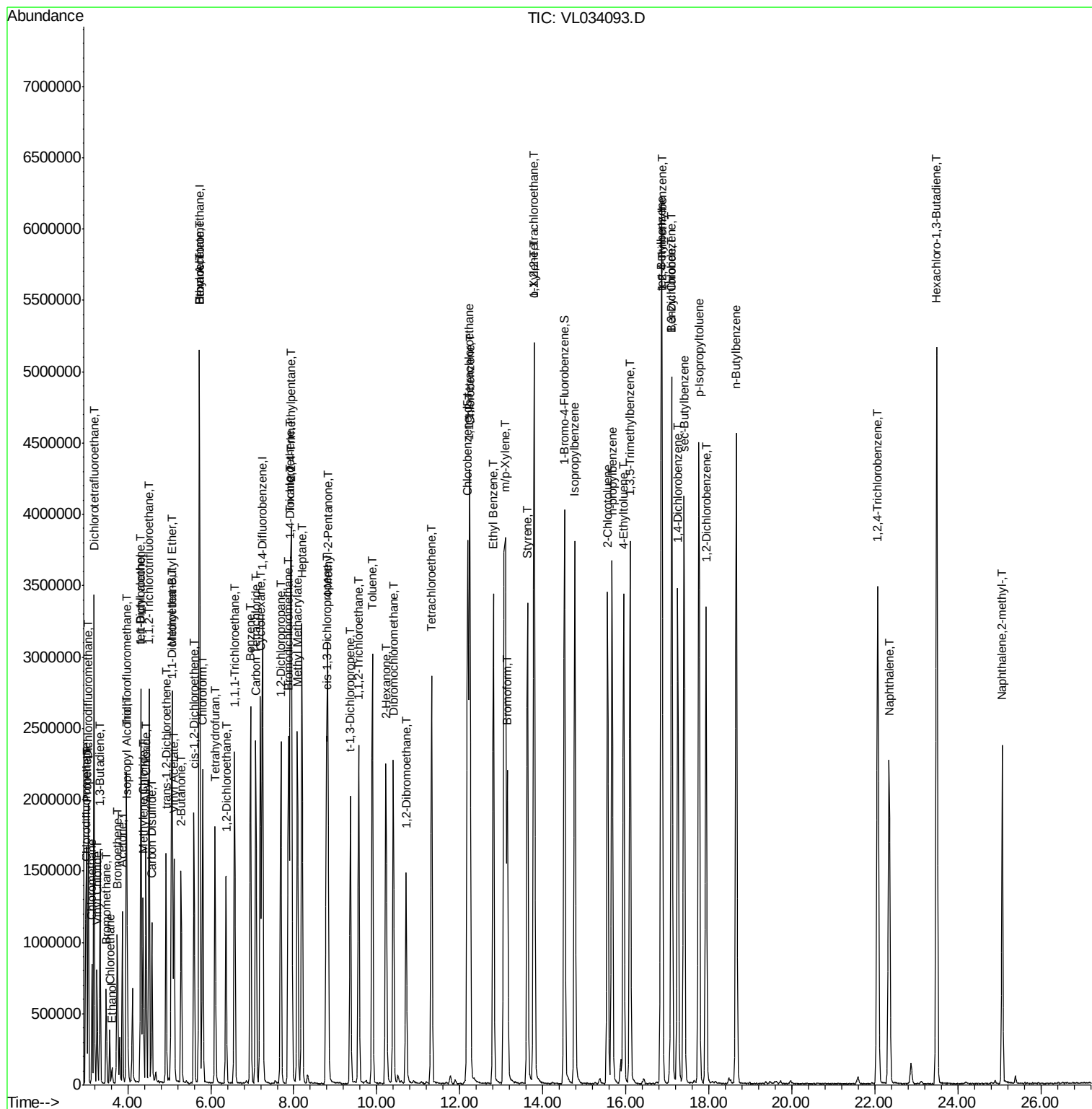
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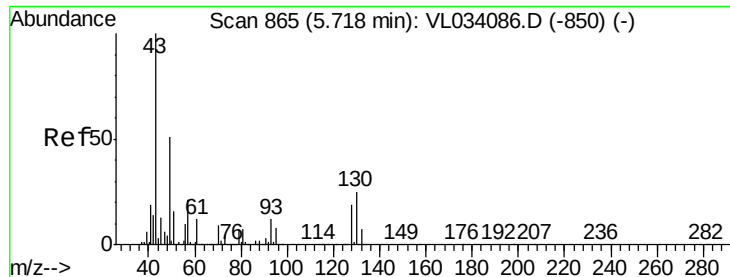
Instrument :
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QLast Update : Mon Aug 05 17:09:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 49 Resp: 1142433

Ion Ratio Lower Upper

49 100

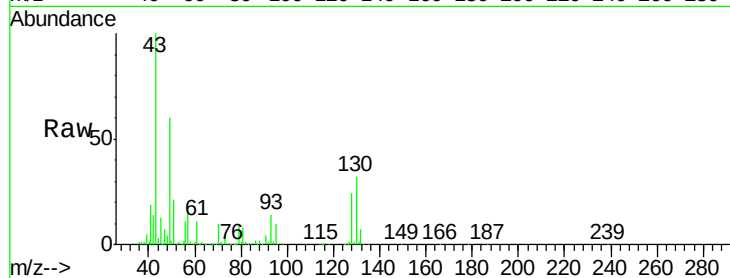
128 40.1 19.5 58.5

130 51.7 25.4 76.0

Manual Integrations
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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

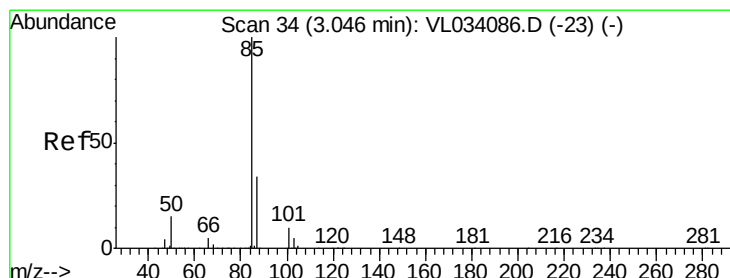
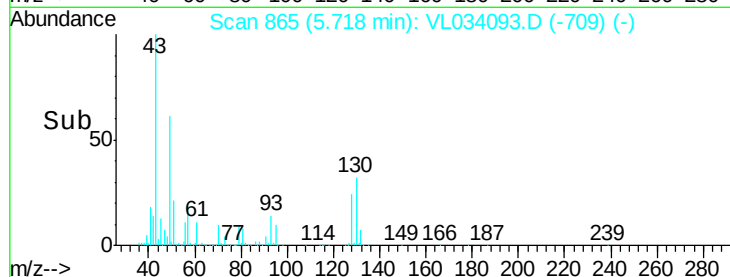
400000

200000

0

5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 9.647 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL034093.D

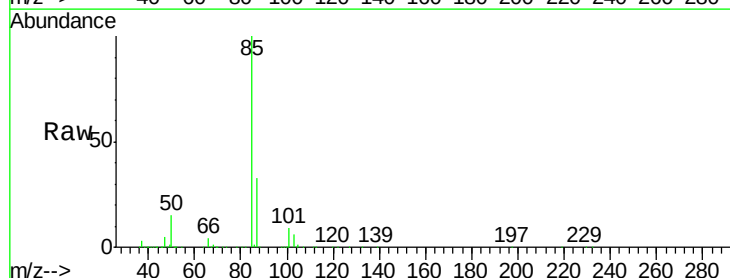
Acq: 5 Aug 2019 18:07

Tgt Ion: 85 Resp: 1356350

Ion Ratio Lower Upper

85 100

87 32.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

1200000

1000000

800000

600000

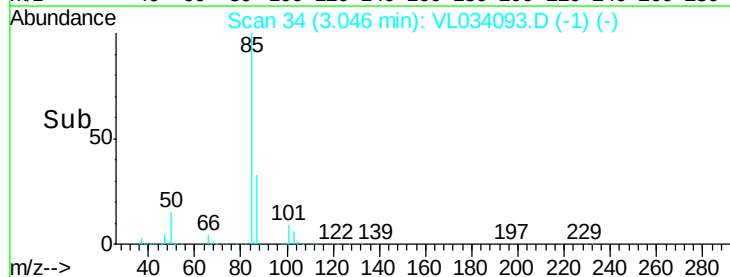
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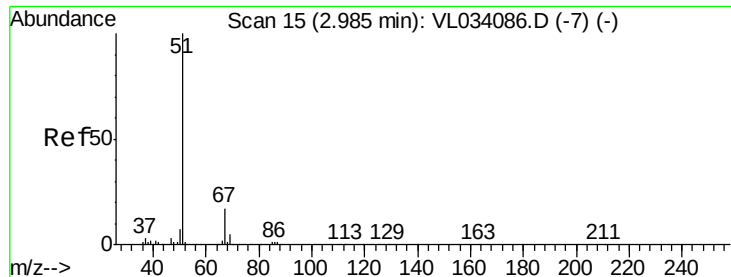
200000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 8.182 ppbv

RT: 2.98 min Scan# 15

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tot Ion: 51 Resp: 1080948

Ion Ratio Lower Upper

51 100

67 16.7 13.3 19.9

Instrument :

MSVOA_L

ClientSampleId :

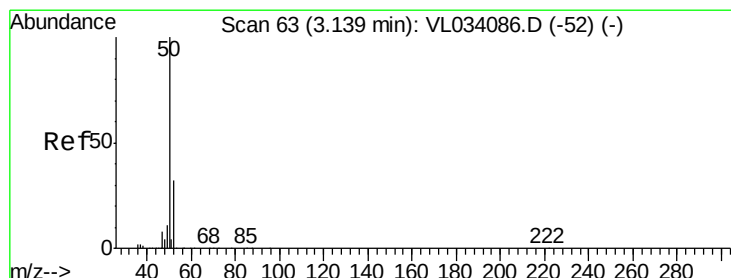
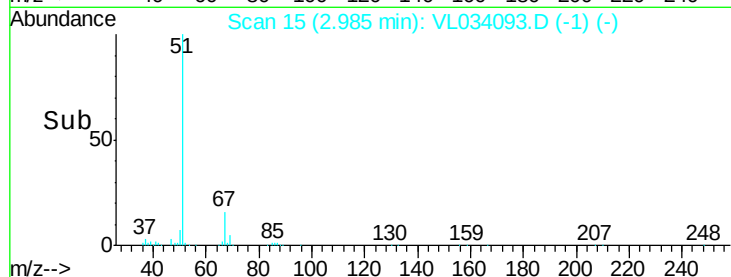
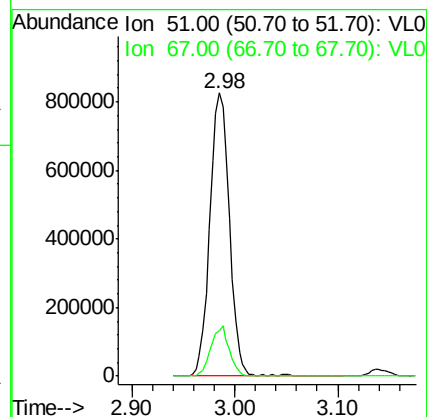
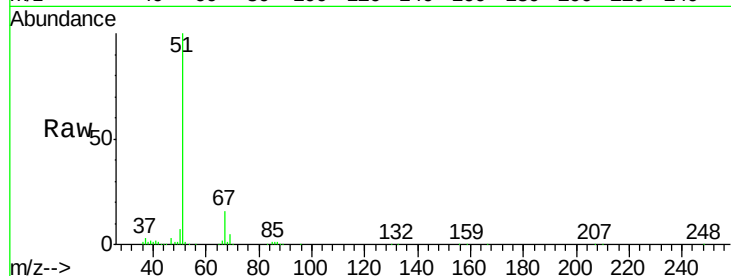
ICVVL080519

Manual Integrations

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#4

Chloromethane

Concen: 8.237 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034093.D

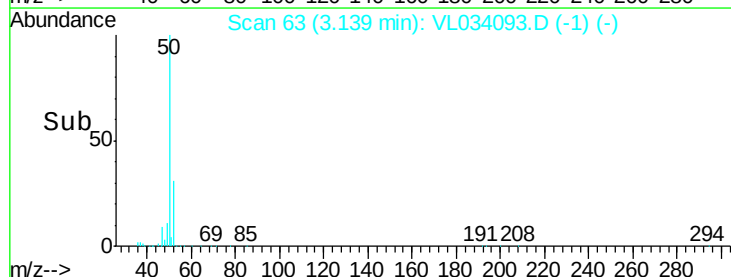
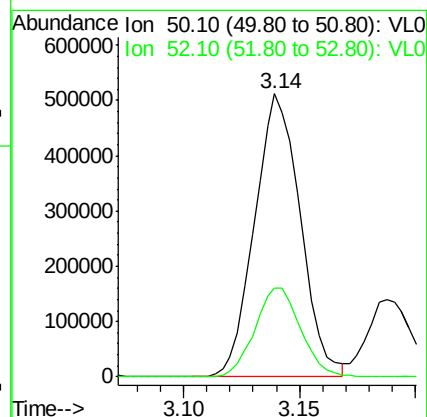
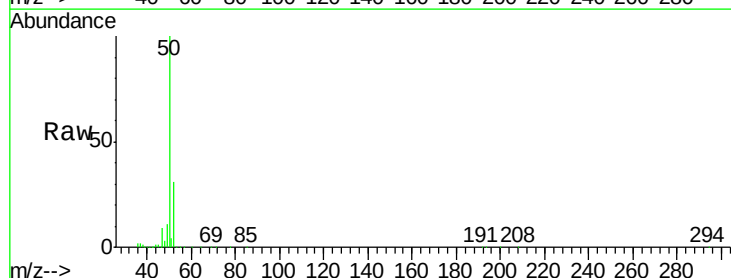
Acq: 5 Aug 2019 18:07

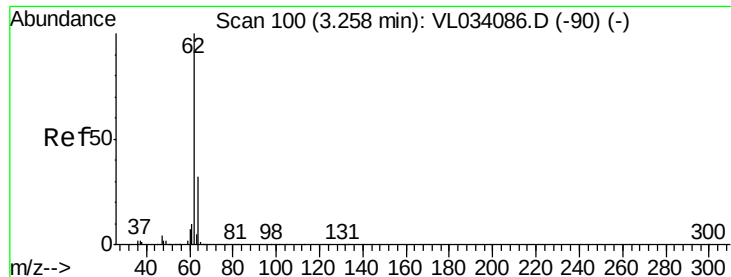
Tgt Ion: 50 Resp: 701569

Ion Ratio Lower Upper

50 100

52 31.2 25.7 38.5





#5

Vinyl Chloride

Concen: 8.439 ppbv

RT: 3.26 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 62 Resp: 633243

Ion Ratio Lower Upper

62 100

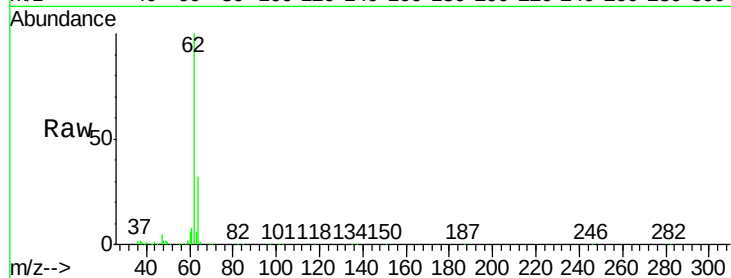
64 32.4 25.8 38.6

Manual Integrations

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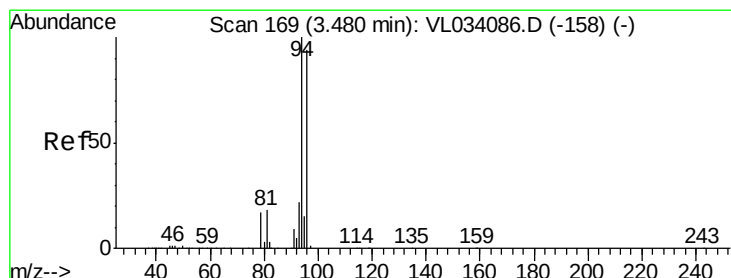
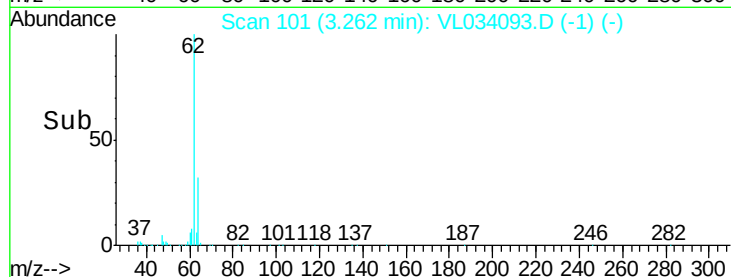
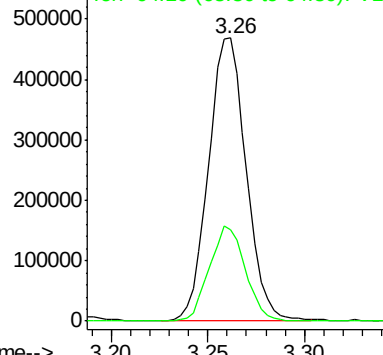
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.569 ppbv

RT: 3.48 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL034093.D

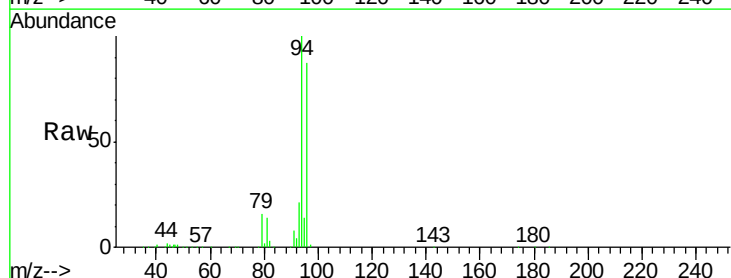
Acq: 5 Aug 2019 18:07

Tgt Ion: 94 Resp: 332282

Ion Ratio Lower Upper

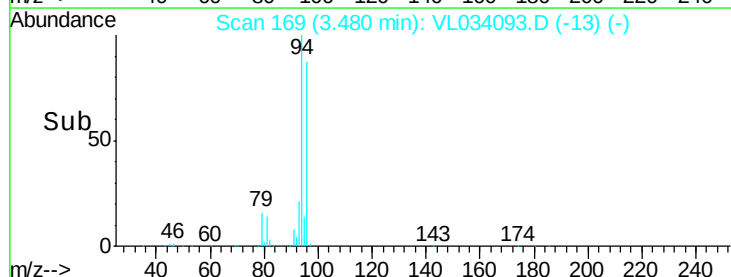
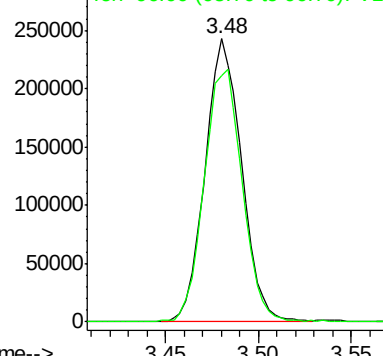
94 100

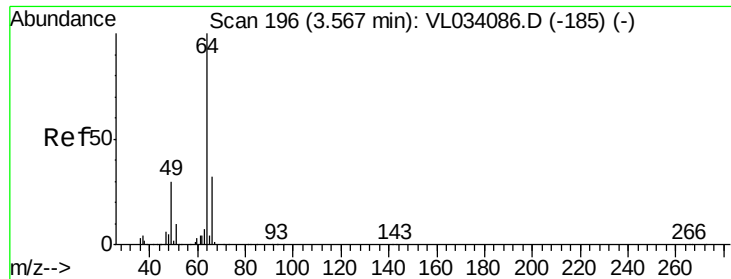
96 86.6 75.3 112.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.175 ppbv

RT: 3.57 min Scan# 196

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 229829

Ion Ratio Lower Upper

64 100

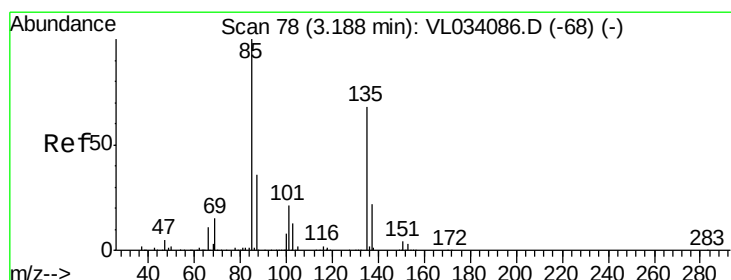
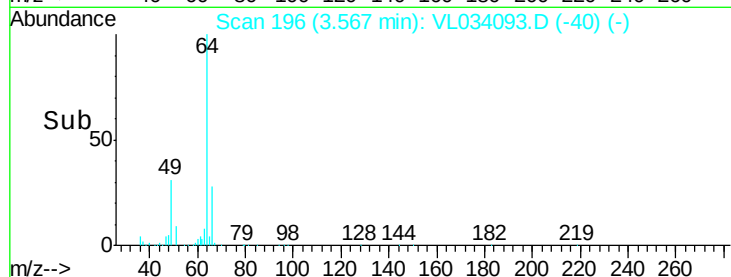
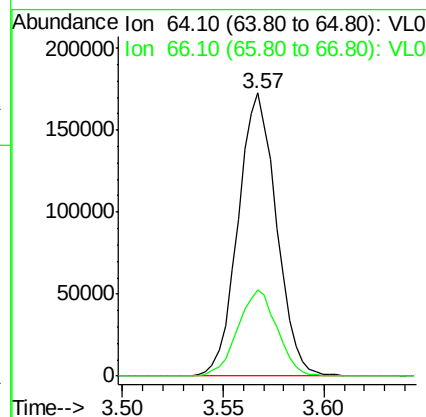
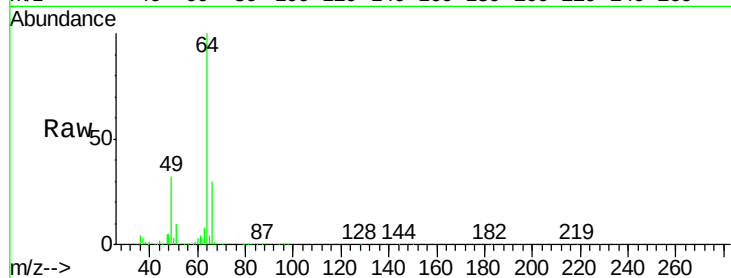
66 30.4 25.2 37.8

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#8

Dichlorotetrafluoroethane

Concen: 8.078 ppbv

RT: 3.19 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL034093.D

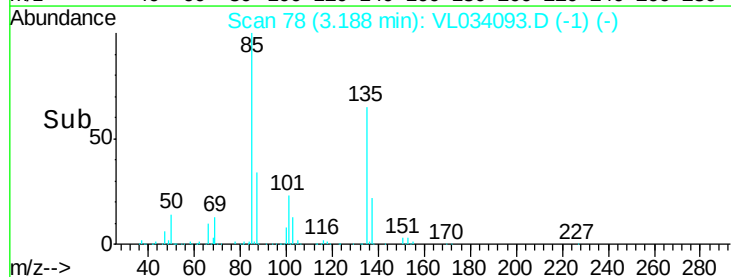
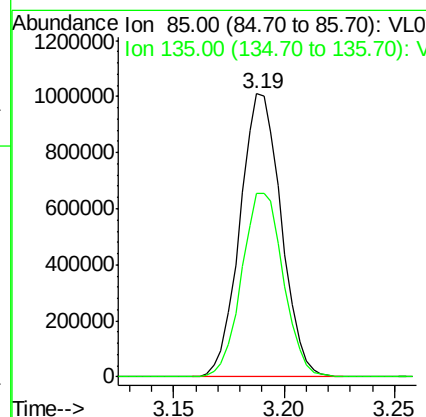
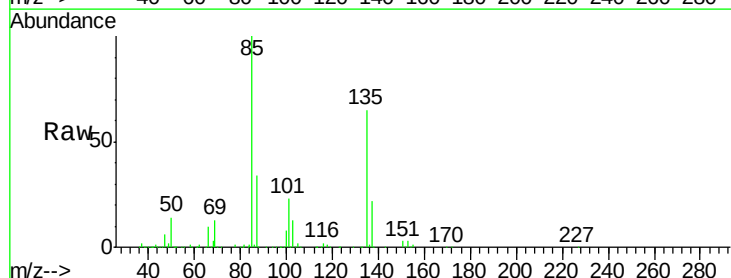
Acq: 5 Aug 2019 18:07

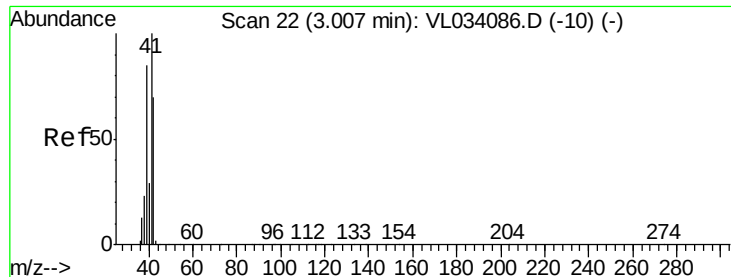
Tgt Ion: 85 Resp: 1310218

Ion Ratio Lower Upper

85 100

135 65.6 54.0 81.0





#9

Propene

Concen: 8.197 ppbv

RT: 3.01 min Scan# 22

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 41 Resp: 638384

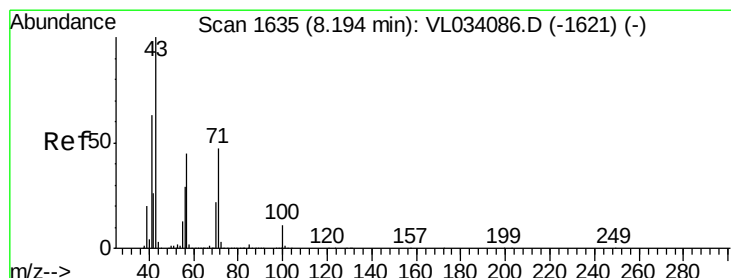
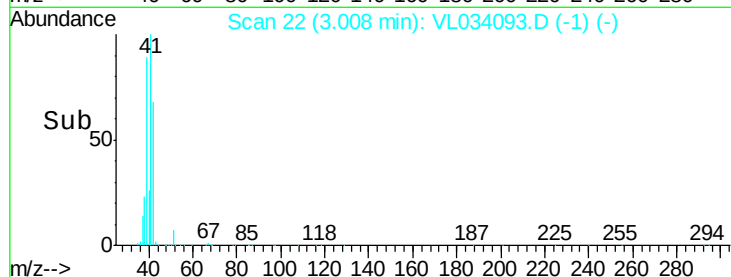
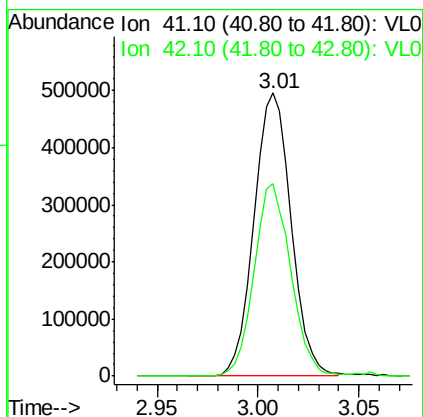
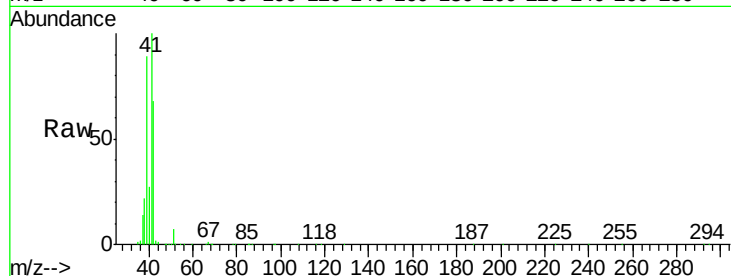
Ion Ratio Lower Upper

41 100

42 68.2 55.8 83.6

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#10

Heptane

Concen: 8.177 ppbv

RT: 8.19 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VL034093.D

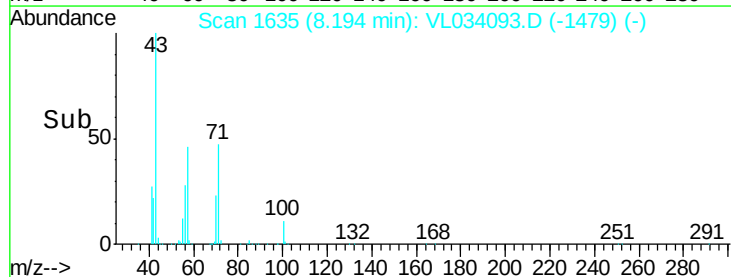
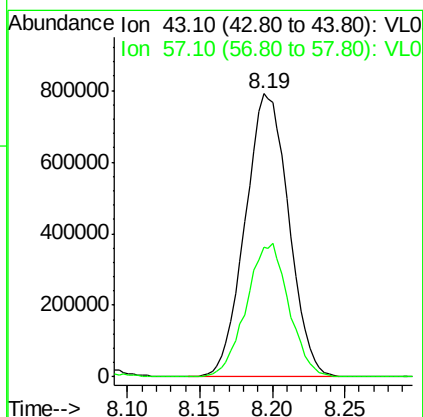
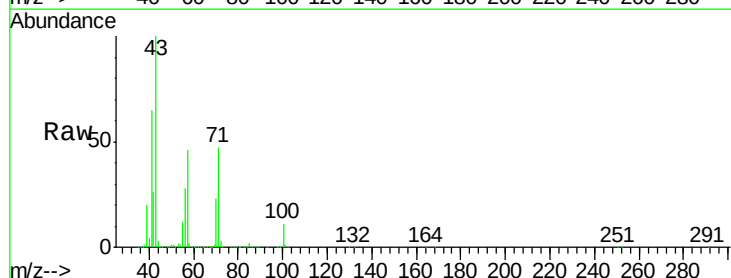
Acq: 5 Aug 2019 18:07

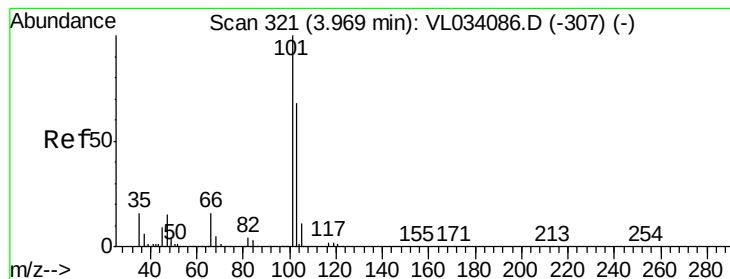
Tgt Ion: 43 Resp: 1647287

Ion Ratio Lower Upper

43 100

57 46.1 37.2 55.8





#11

Trichlorofluoromethane

Concen: 8.088 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion:101 Resp: 1348264

Ion Ratio Lower Upper

101 100

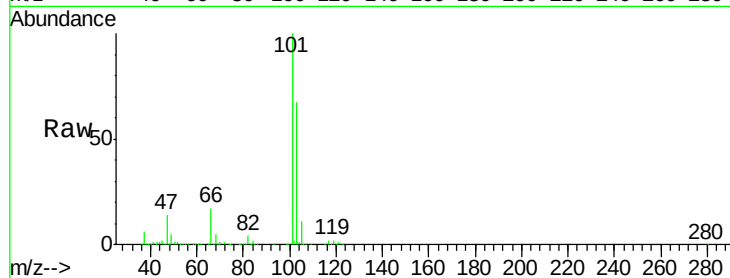
103 66.9 54.3 81.5

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1000000

800000

600000

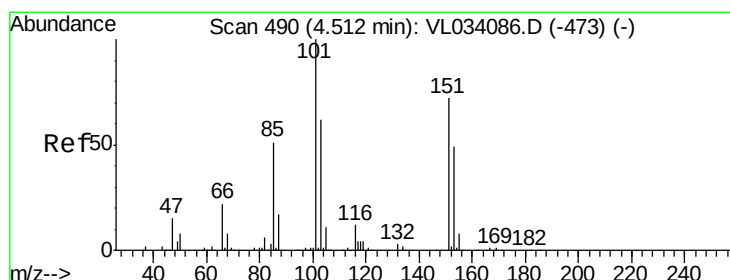
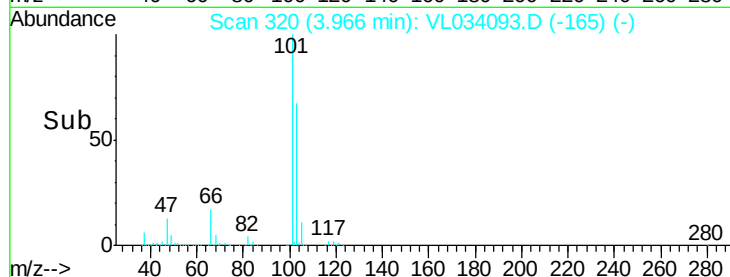
400000

200000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.094 ppbv

RT: 4.51 min Scan# 490

Delta R.T. 0.00 min

Lab File: VL034093.D

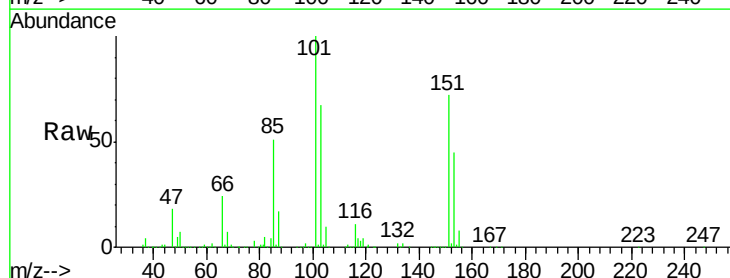
Acq: 5 Aug 2019 18:07

Tgt Ion:101 Resp: 952010

Ion Ratio Lower Upper

101 100

151 72.0 59.4 89.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

600000

500000

400000

300000

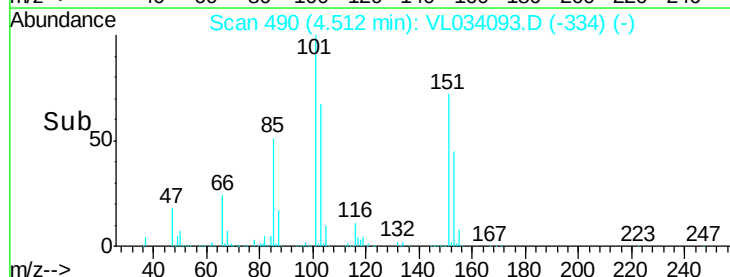
200000

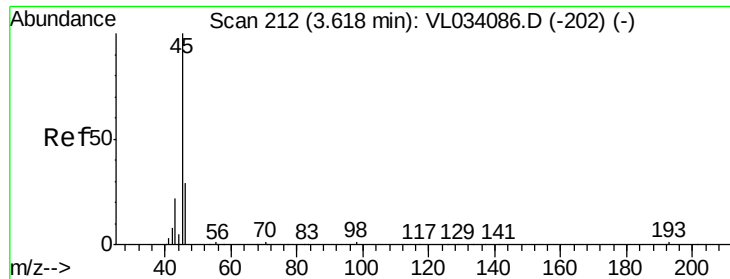
100000

0

4.45 4.50 4.55 4.60

Time-->





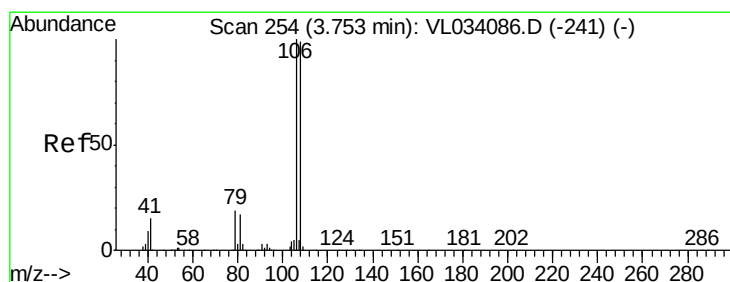
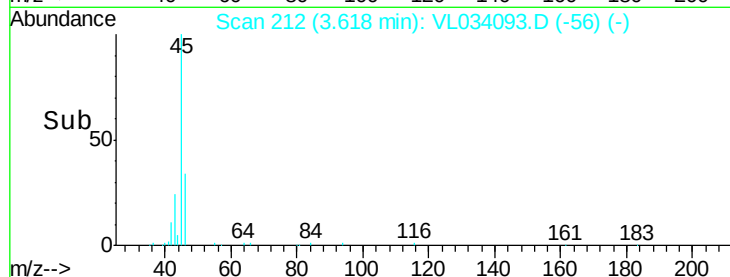
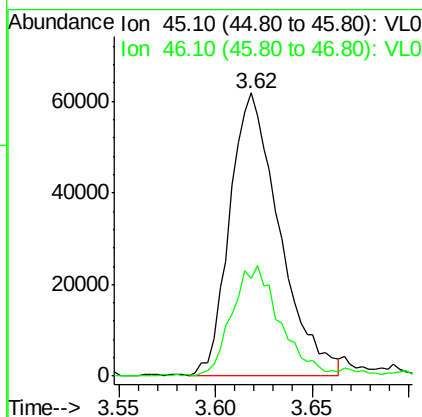
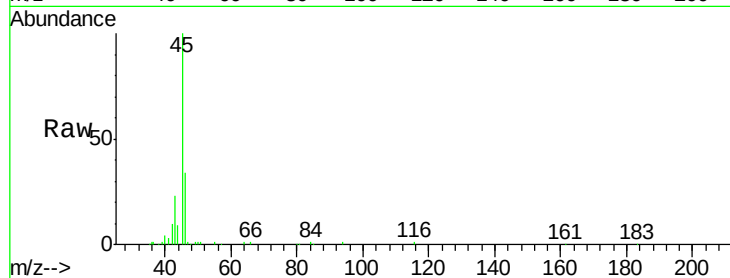
#13
Ethanol
Concen: 4.990 ppbv
RT: 3.62 min Scan# 212
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion	Ratio	Lower	Upper
45	100		
46	40.1	14.9	59.5

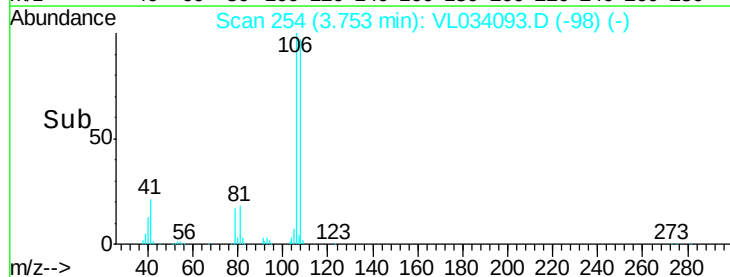
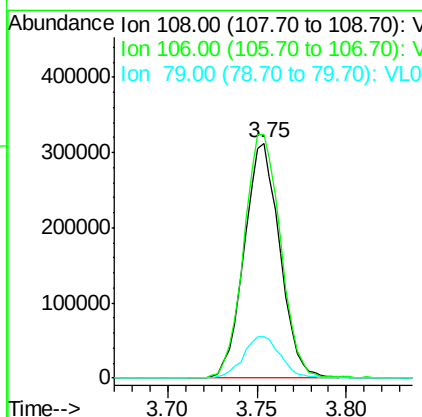
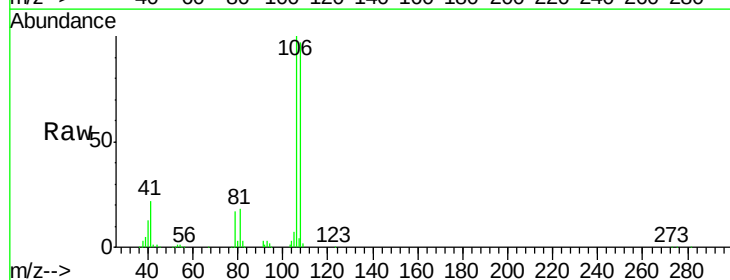
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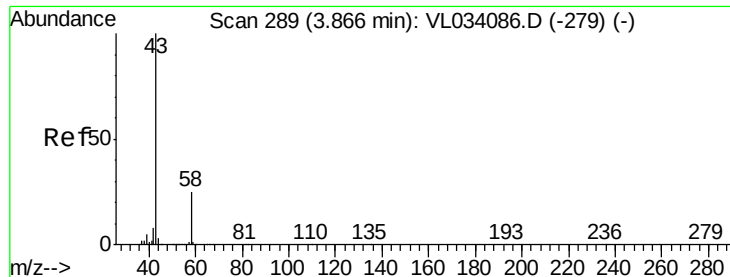
MMDadoda
8/8/2019 12:41:38 PM



#14
Bromoethene
Concen: 8.269 ppbv
RT: 3.75 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.9	85.0	127.6
79	18.6	15.8	23.8





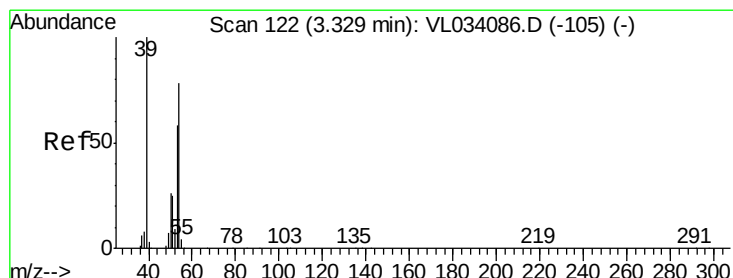
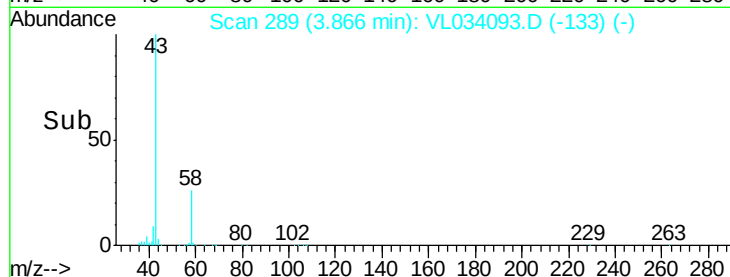
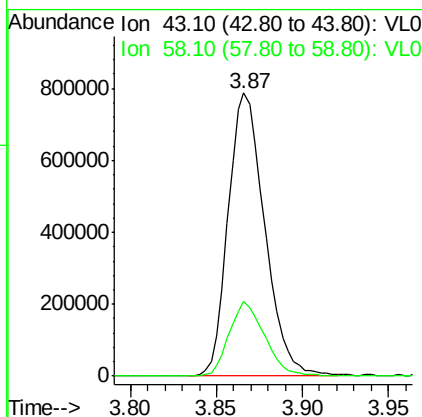
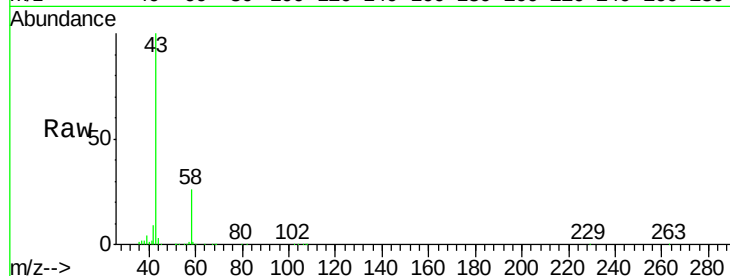
#15
Acetone
Concen: 7.104 ppbv
RT: 3.87 min Scan# 289
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion: 43 Resp: 1159812
Ion Ratio Lower Upper
43 100
58 25.9 20.6 30.8

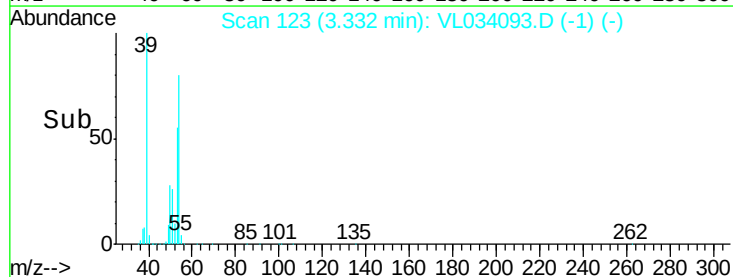
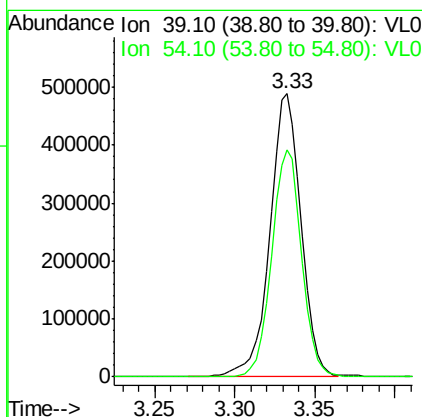
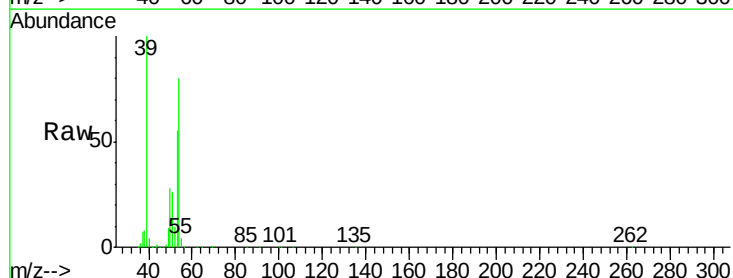
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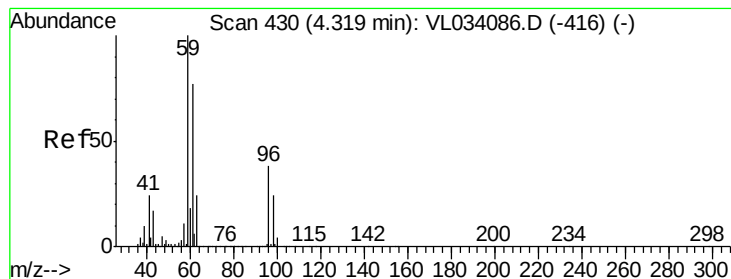
MMDadoda
8/8/2019 12:41:38 PM



#16
1,3-Butadiene
Concen: 8.306 ppbv
RT: 3.33 min Scan# 123
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 39 Resp: 659383
Ion Ratio Lower Upper
39 100
54 77.2 62.7 94.1





#17

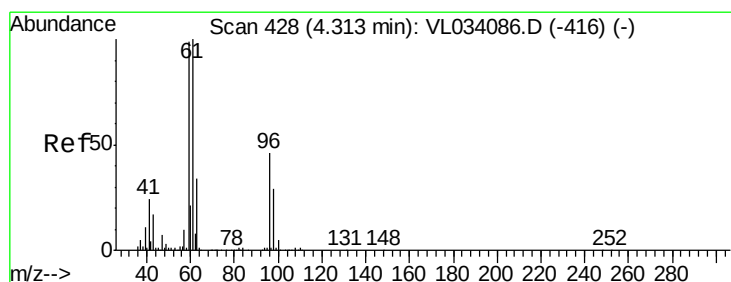
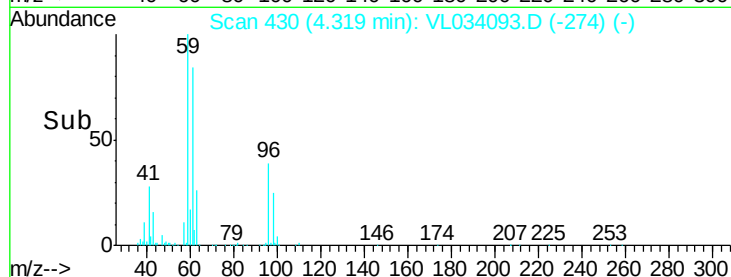
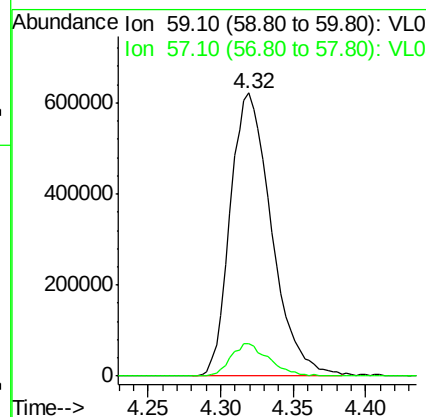
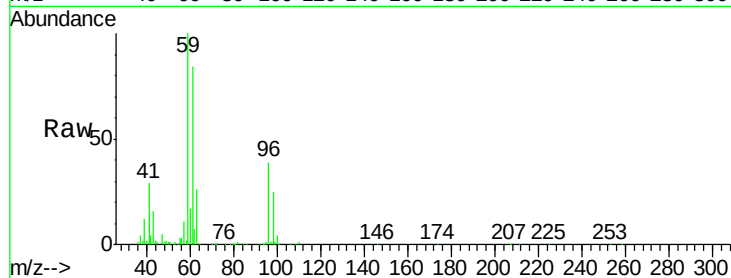
tert-Butyl alcohol
 Concen: 8.071 ppbv
 RT: 4.32 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion: 59 Resp: 1229490
 Ion Ratio Lower Upper
 59 100
 57 10.9 8.4 12.6

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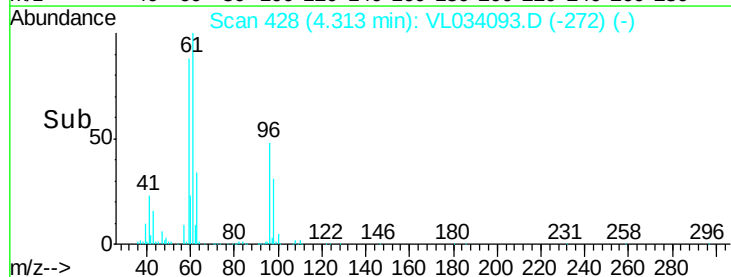
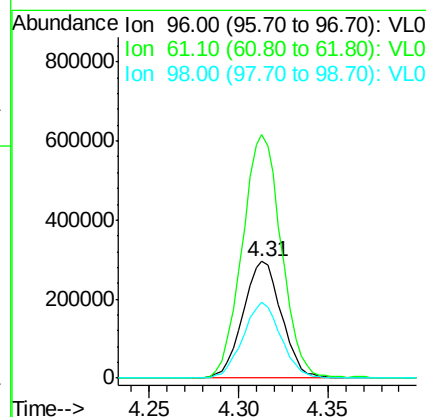
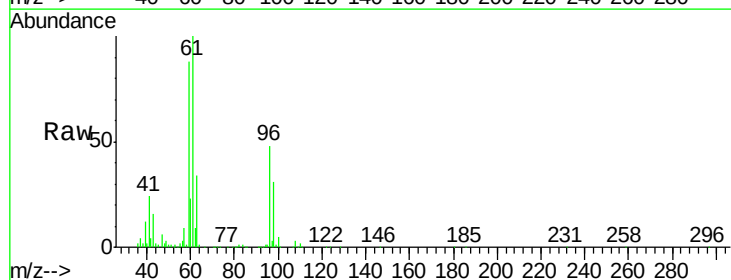
MMDadoda
 8/8/2019 12:41:38 PM

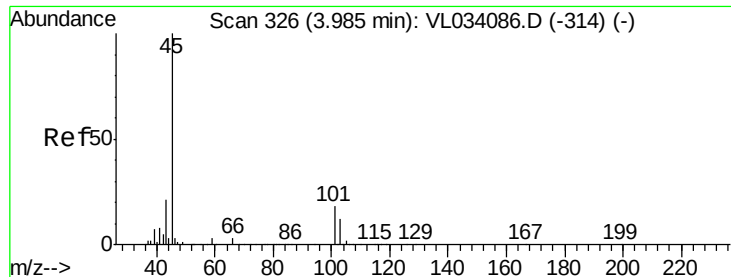


#18

1,1-Dichloroethene
 Concen: 8.014 ppbv
 RT: 4.31 min Scan# 428
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 96 Resp: 445820
 Ion Ratio Lower Upper
 96 100
 61 208.9 173.1 259.7
 98 65.6 50.3 75.5





#19

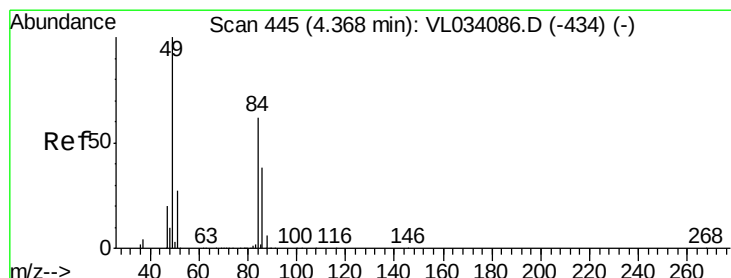
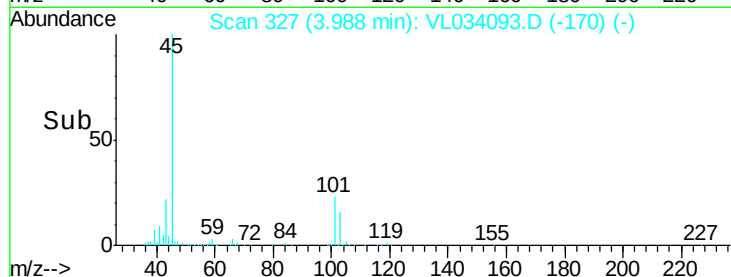
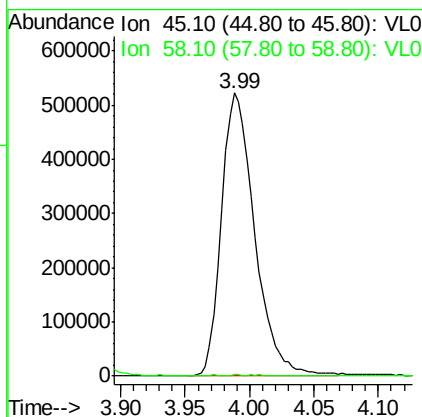
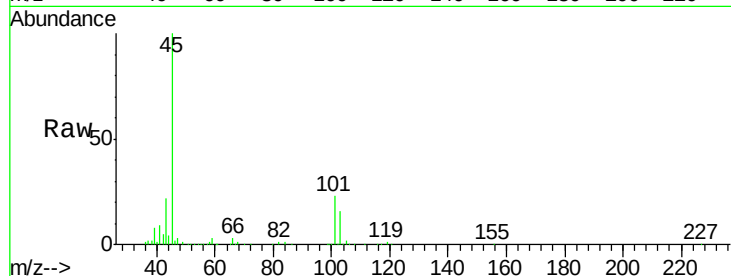
Isopropyl Alcohol
 Concen: 7.363 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	45	Resp	935887
Ion Ratio	100	Lower	Upper
45	100		
58	32.0	24.6	37.0

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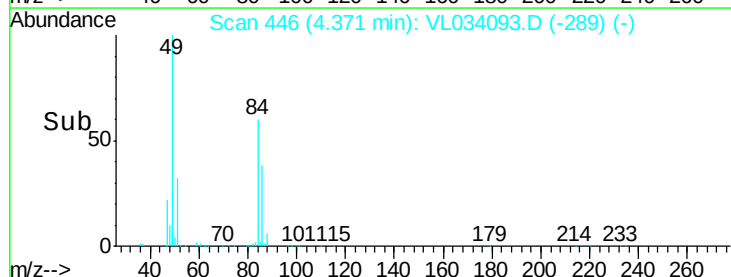
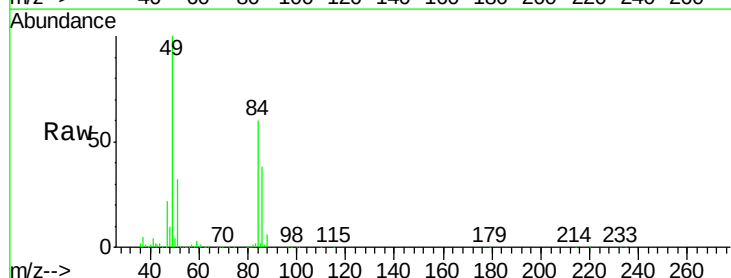
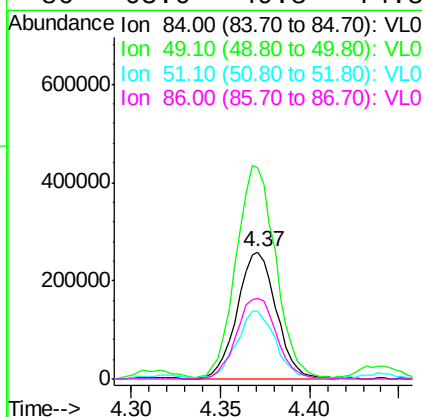
MMDadoda
 8/8/2019 12:41:38 PM

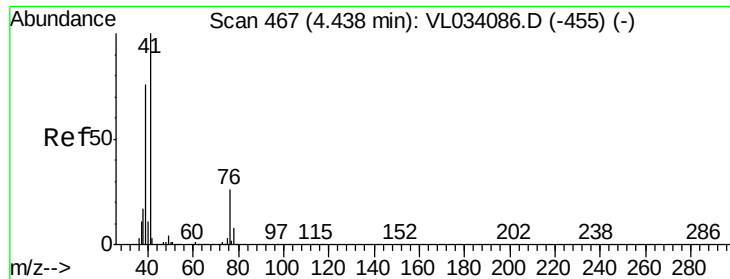


#20

Methylene Chloride
 Concen: 8.035 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	84	Resp	393380
Ion Ratio	100	Lower	Upper
84	100		
49	164.9	129.7	194.5
51	52.6	35.8	53.8
86	63.6	49.8	74.8





#21

Allvl Chloride

Concen: 8.114 ppbv

RT: 4.44 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

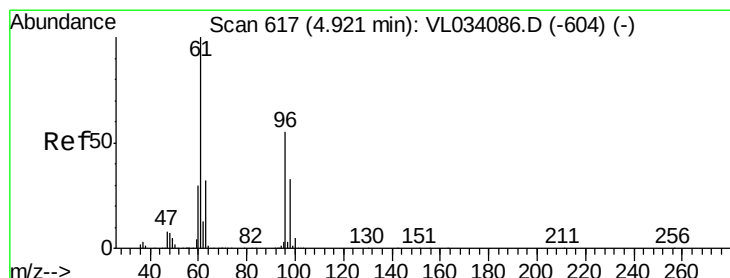
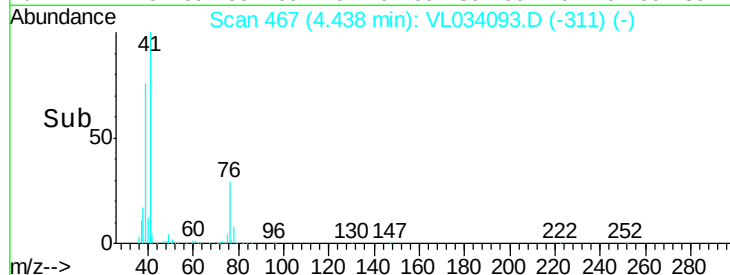
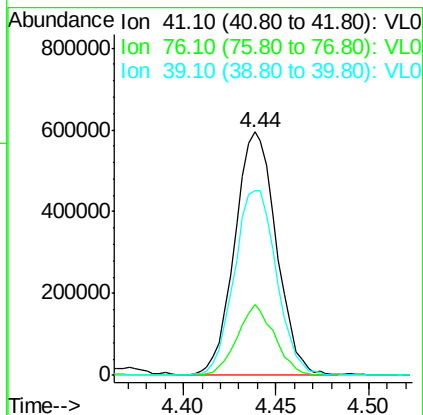
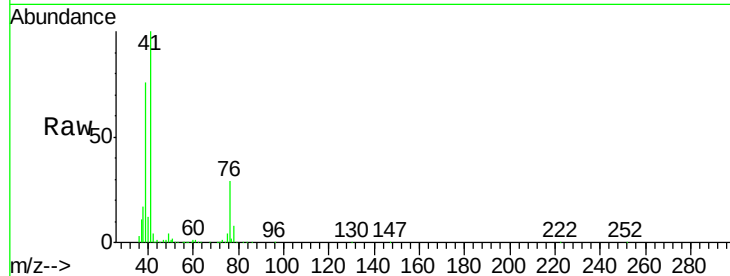
ClientSampleId :

ICVVL080519

Tot Ion:	41	Resp:	916809
Ion Ratio		Lower	Upper
41	100		
76	26.5	20.8	31.2
39	78.1	61.3	91.9

Manual Integrations
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MMDadoda
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#22

trans-1,2-Dichloroethene

Concen: 8.110 ppbv

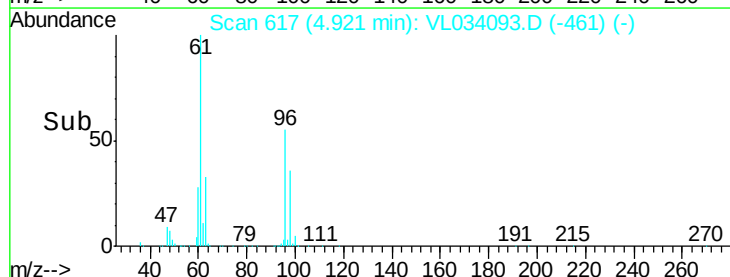
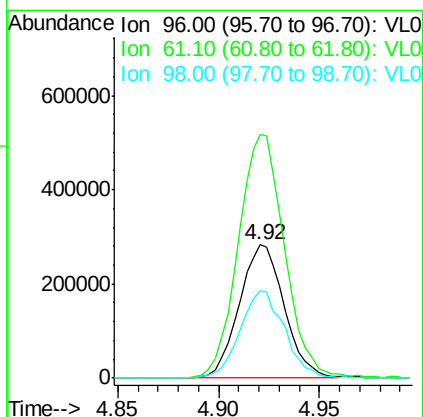
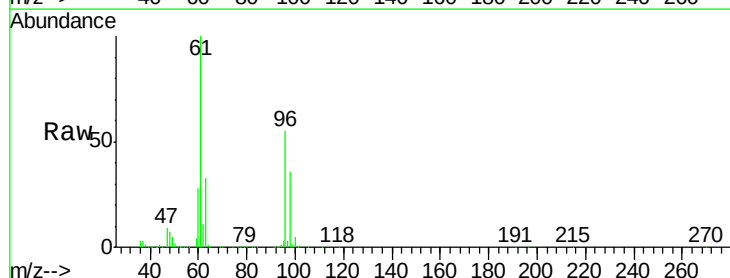
RT: 4.92 min Scan# 617

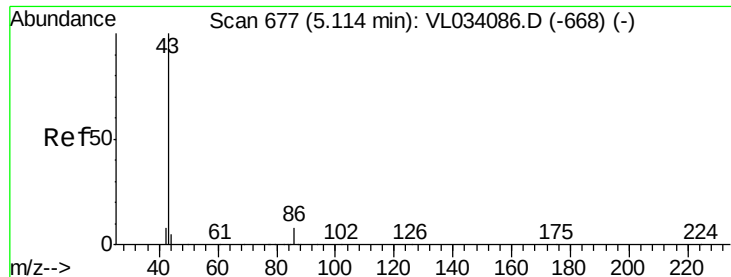
Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:	96	Resp:	438414
Ion Ratio		Lower	Upper
96	100		
61	183.0	144.2	216.2
98	65.6	48.0	72.0





#23

Vinyl Acetate

Concen: 7.901 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 43 Resp: 2138558

Ion Ratio Lower Upper

43 100

86 6.6 5.4 8.0

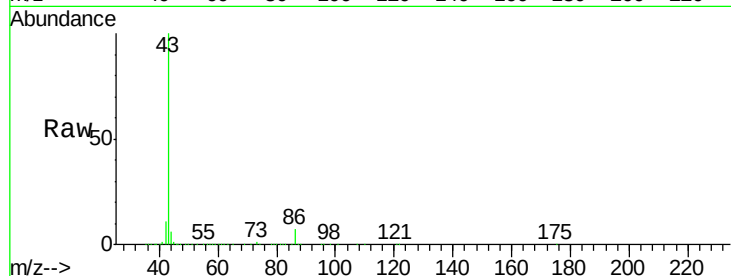
42 10.6 7.9 11.9

44 5.4 4.0 6.0

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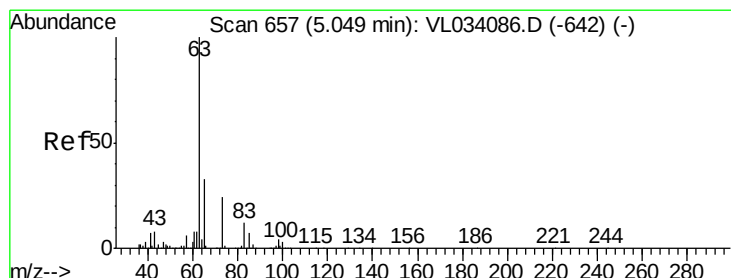
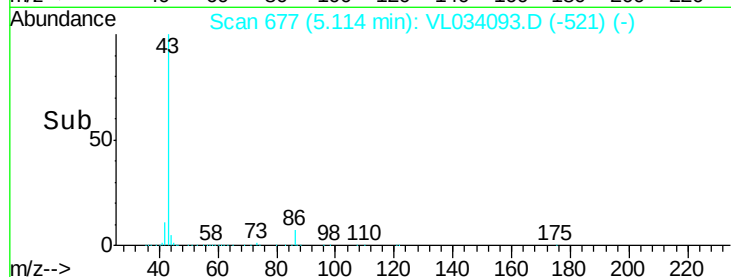
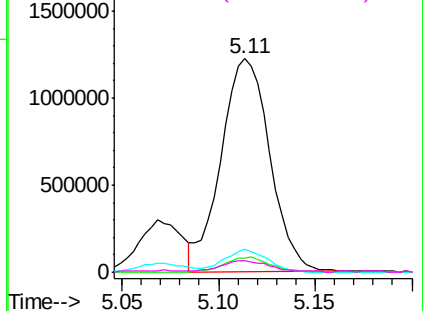


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.050 ppbv

RT: 5.05 min Scan# 657

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

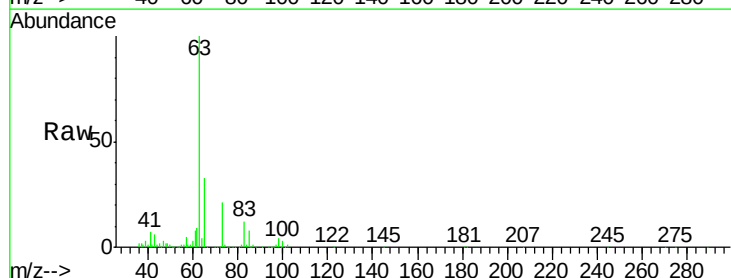
Tgt Ion: 63 Resp: 1296495

Ion Ratio Lower Upper

63 100

98 4.3 2.0 6.0

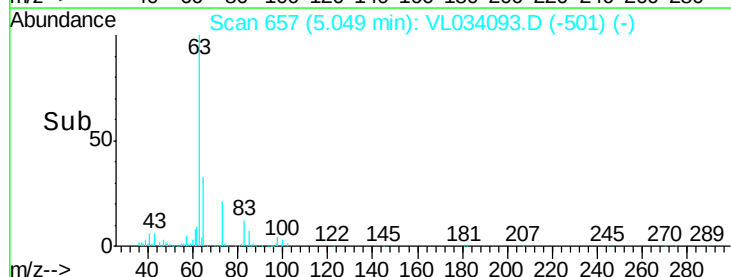
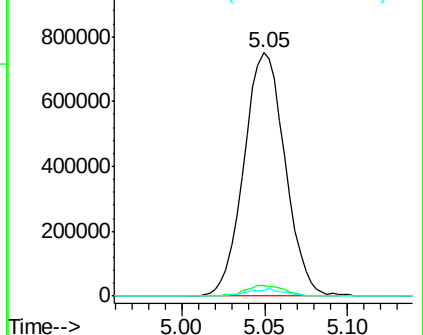
100 2.5 1.3 3.8

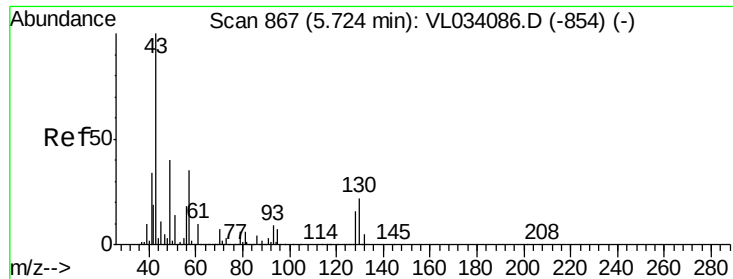


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 7.814 ppbv

RT: 5.72 min Scan# 867

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 43 Resp: 2509137

Ion Ratio Lower Upper

43 100

45 10.5 8.4 12.6

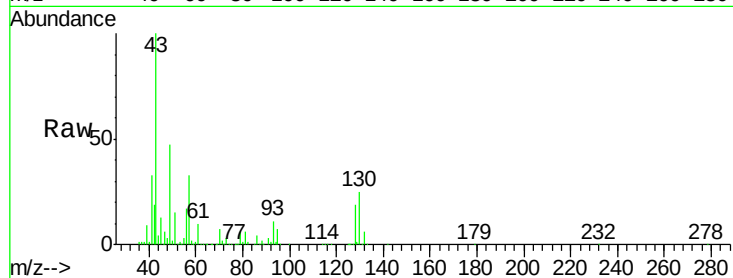
61 9.1 7.3 10.9

70 7.2 5.8 8.6

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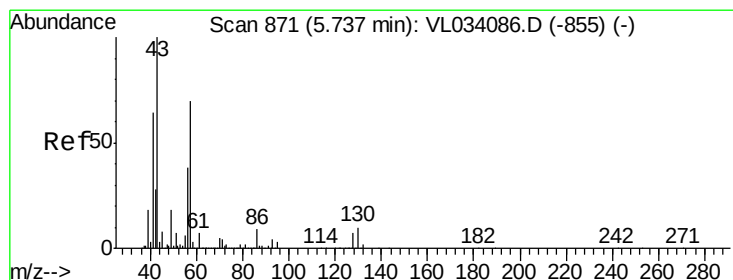
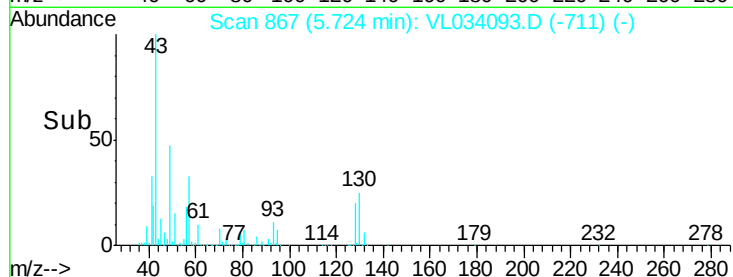
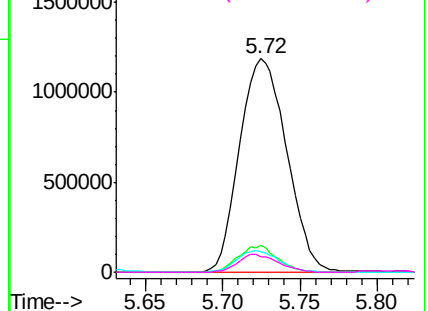


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 7.972 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion: 57 Resp: 1084996

Ion Ratio Lower Upper

57 100

41 93.0 75.7 113.5

43 232.4 189.8 284.8

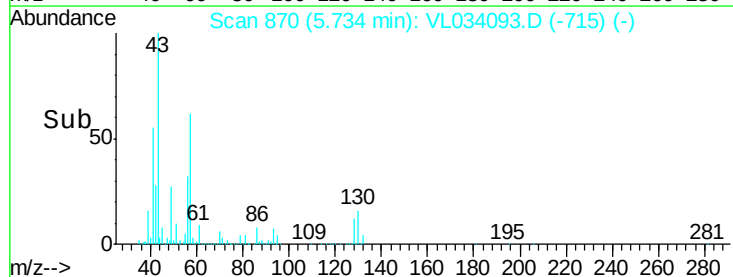
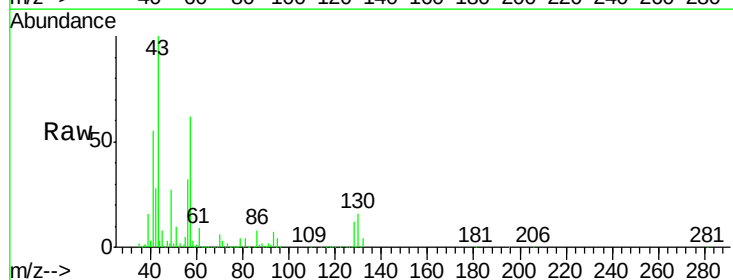
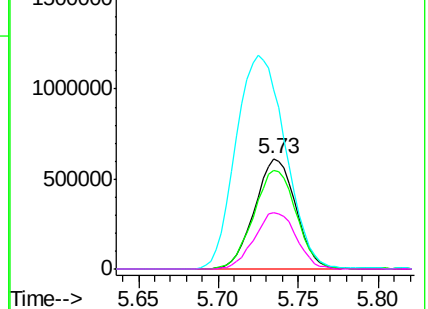
56 52.6 42.7 64.1

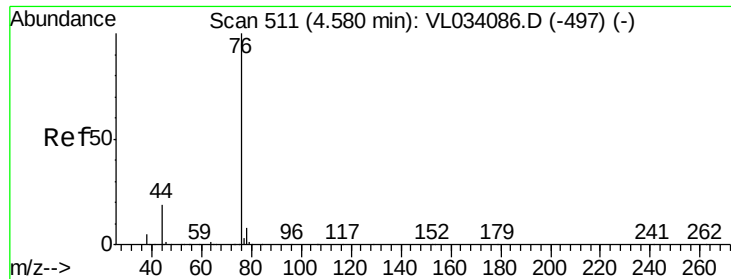
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 8.394 ppbv

RT: 4.58 min Scan# 511

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 76 Resp: 1204480

Ion Ratio Lower Upper

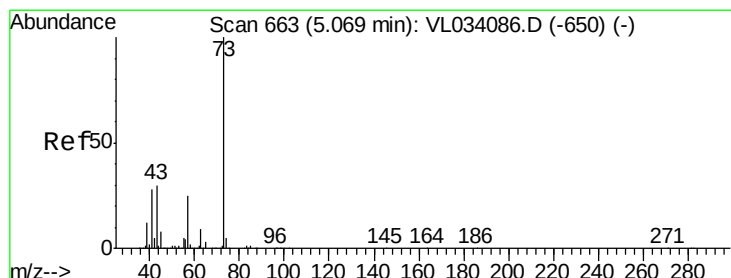
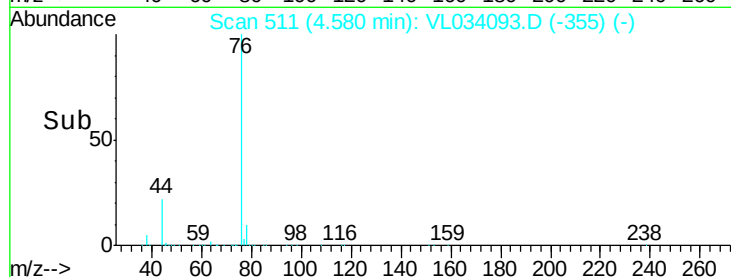
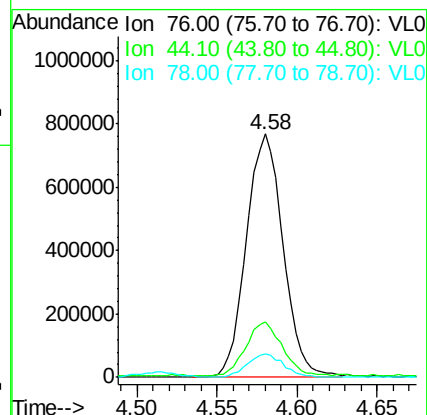
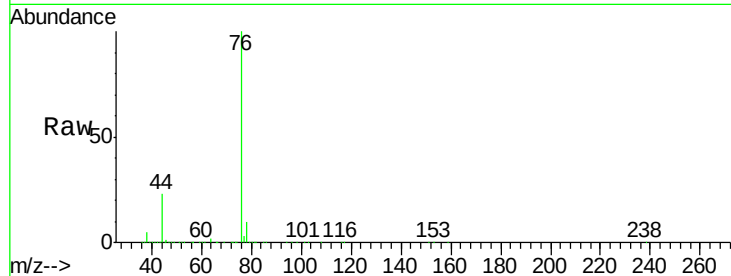
76 100

44 21.8 17.8 26.6

78 9.5 7.7 11.5

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#28

Methyl tert-Butyl Ether

Concen: 7.970 ppbv

RT: 5.07 min Scan# 664

Delta R.T. 0.00 min

Lab File: VL034093.D

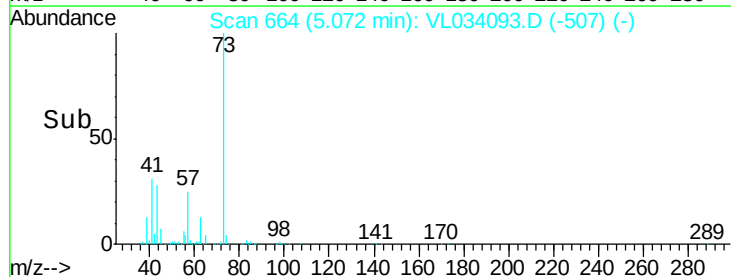
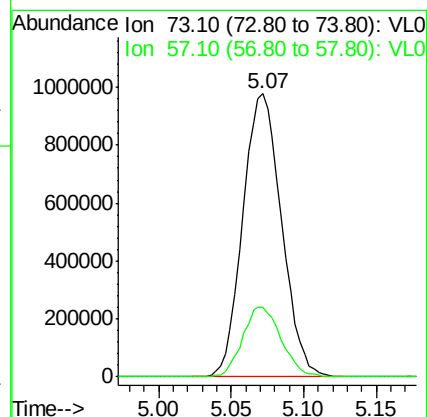
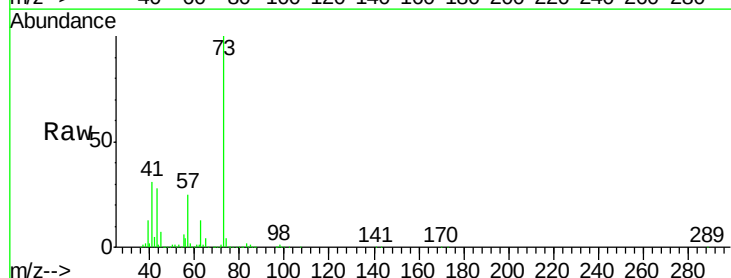
Acq: 5 Aug 2019 18:07

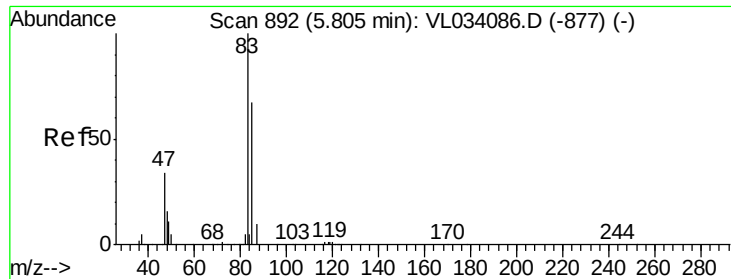
Tgt Ion: 73 Resp: 1814130

Ion Ratio Lower Upper

73 100

57 24.8 19.5 29.3





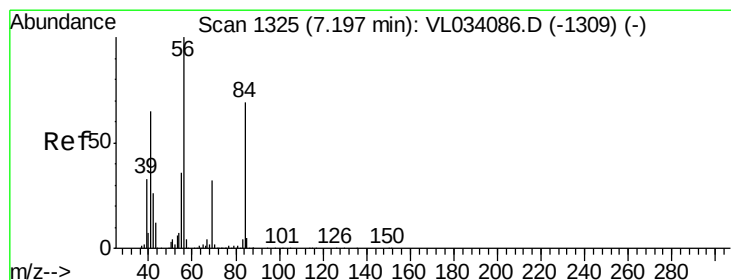
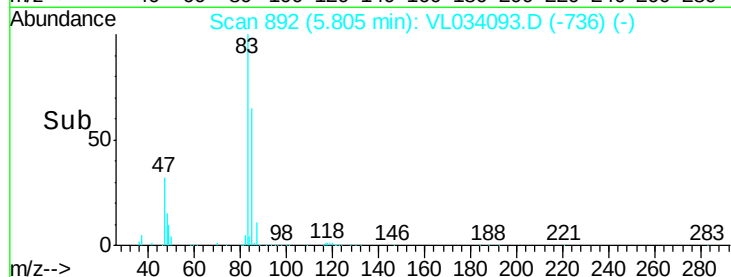
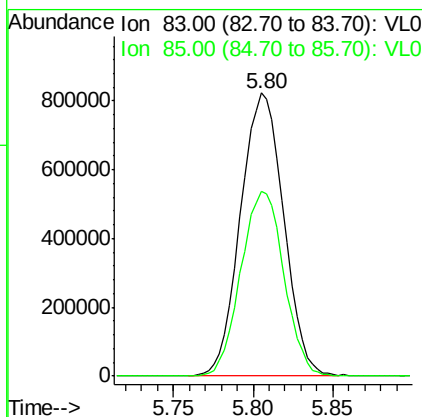
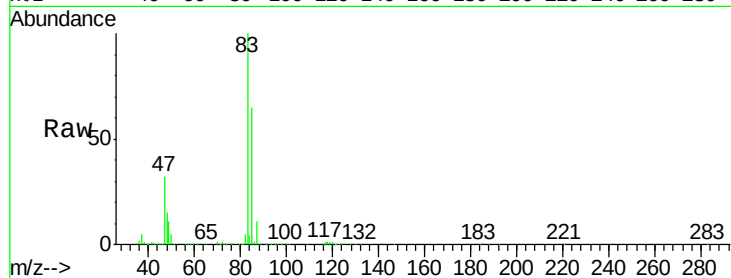
#29
Chloroform
Concen: 8.213 ppbv
RT: 5.80 min Scan# 892
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion: 83 Resp: 1519616
Ion Ratio Lower Upper
83 100
85 65.5 53.2 79.8

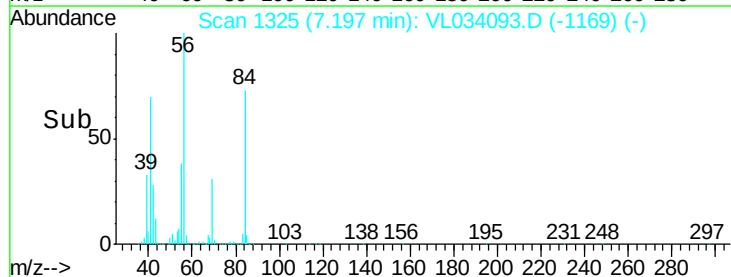
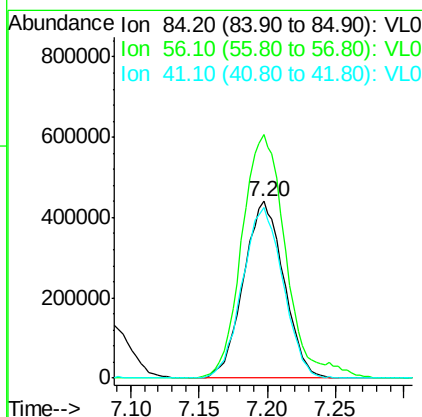
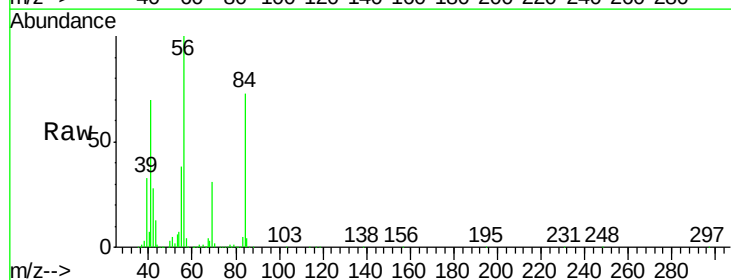
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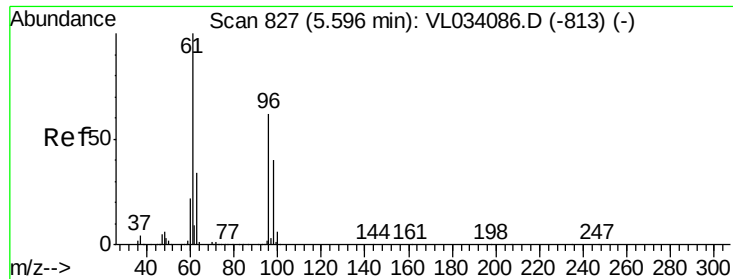
MMDadoda
8/8/2019 12:41:38 PM



#30
Cyclohexane
Concen: 8.407 ppbv
RT: 7.20 min Scan# 1325
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 84 Resp: 903927
Ion Ratio Lower Upper
84 100
56 150.2 122.6 184.0
41 97.3 80.1 120.1





#31

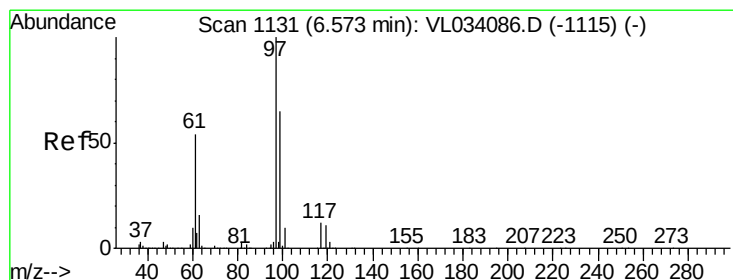
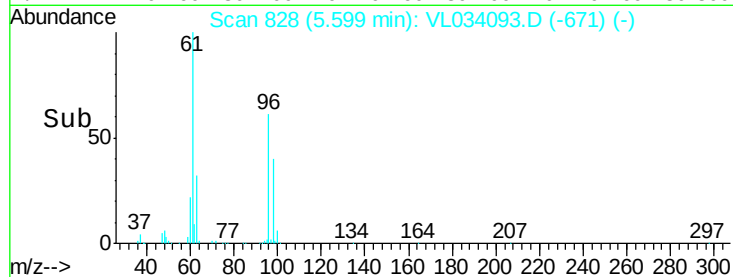
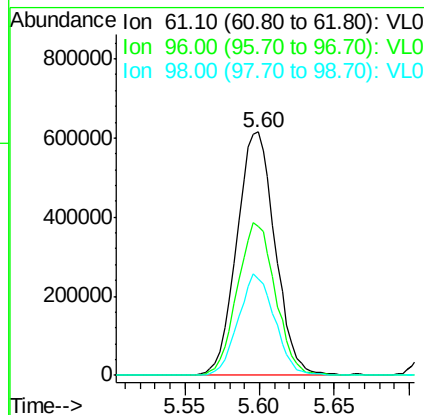
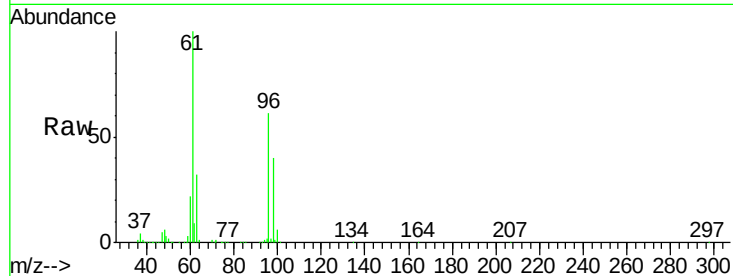
cis-1,2-Dichloroethene
 Concen: 8.142 ppbv
 RT: 5.60 min Scan# 828
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	61.2	49.3	73.9	
98	39.6	32.4	48.6	

Manual Integrations
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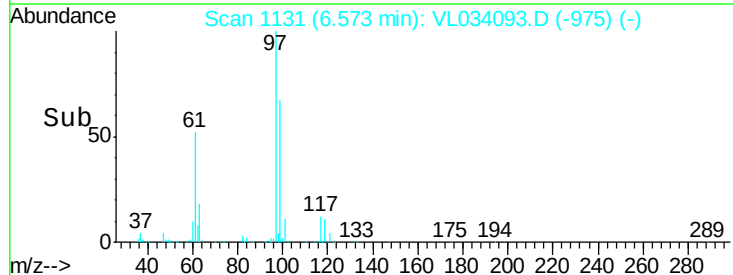
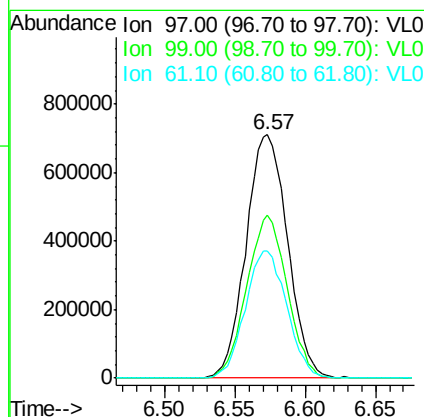
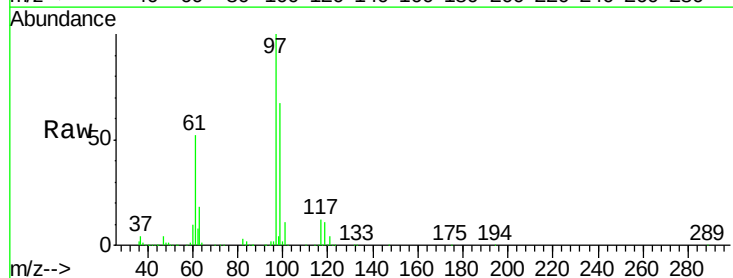
MMDadoda
 8/8/2019 12:41:38 PM

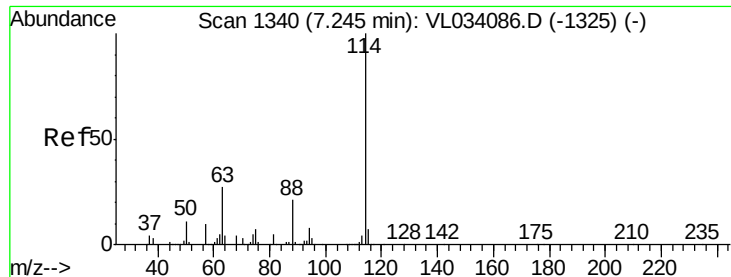


#32

1,1,1-Trichloroethane
 Concen: 8.022 ppbv
 RT: 6.57 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	65.2	52.2	78.4	
61	52.3	42.0	63.0	





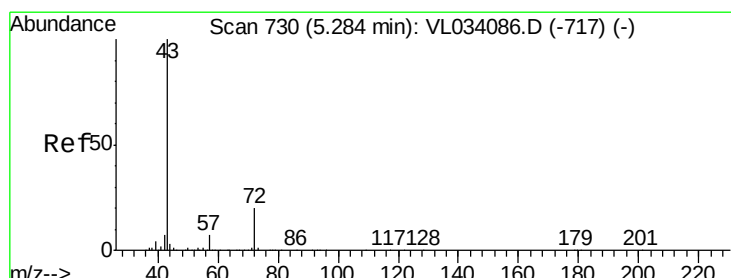
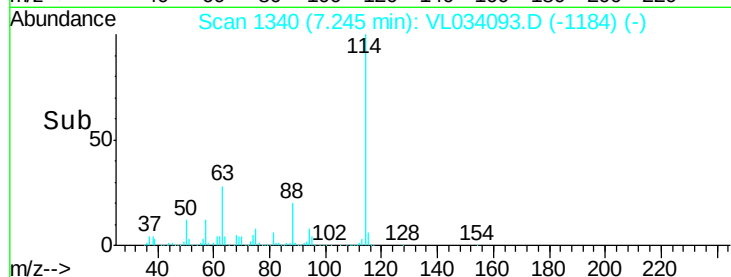
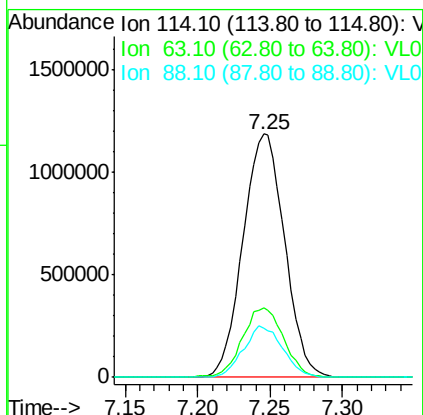
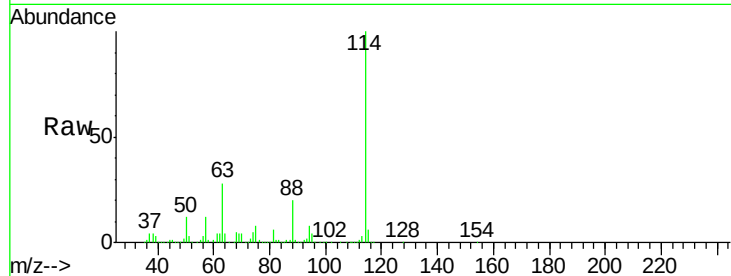
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.5	33.7
88	20.0	15.7	23.5

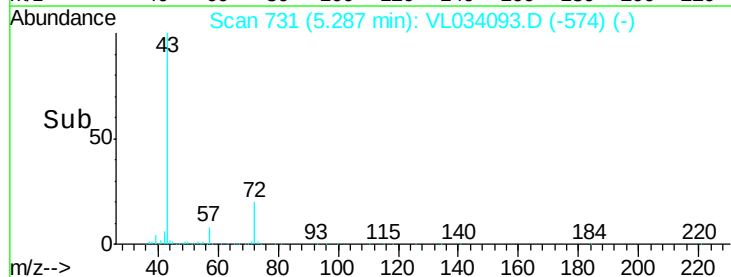
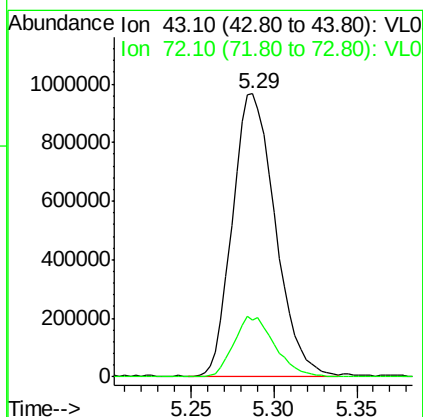
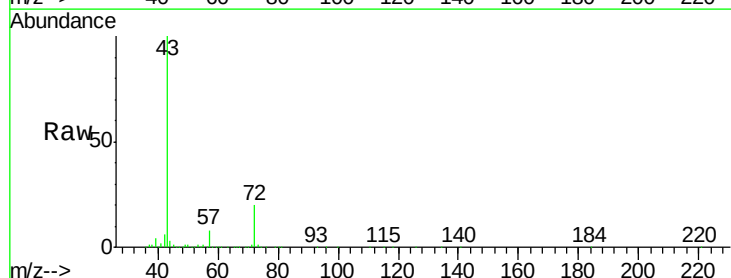
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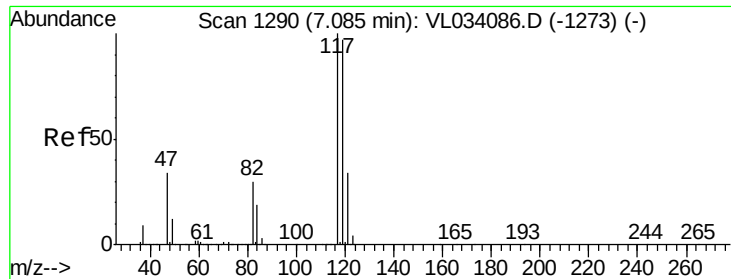
MMDadoda
 8/8/2019 12:41:38 PM



#34
 2-Butanone
 Concen: 7.900 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.6	16.0	24.0





#35

Carbon Tetrachloride

Concen: 7.883 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion:117 Resp: 1432975

Ion Ratio Lower Upper

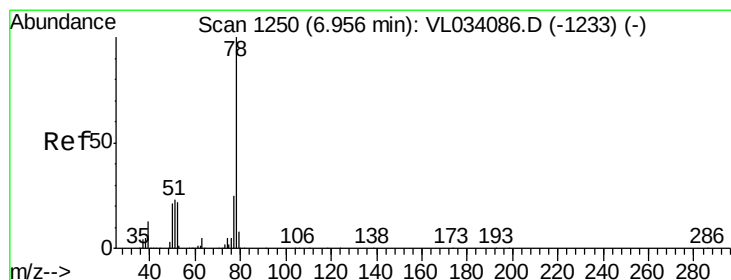
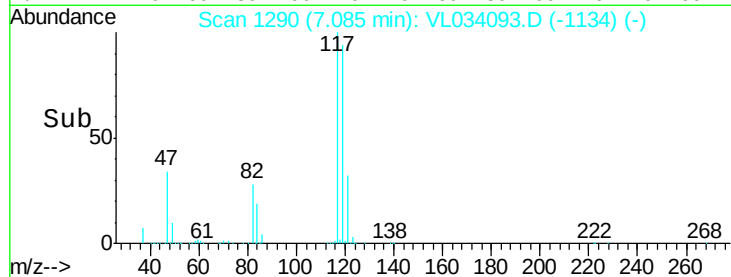
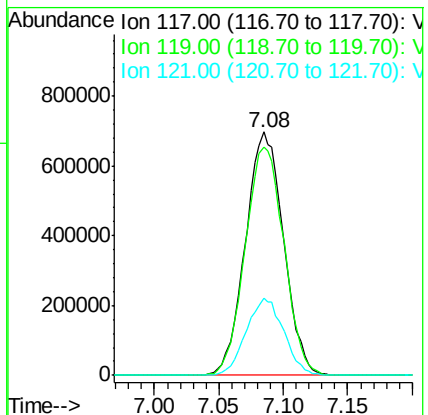
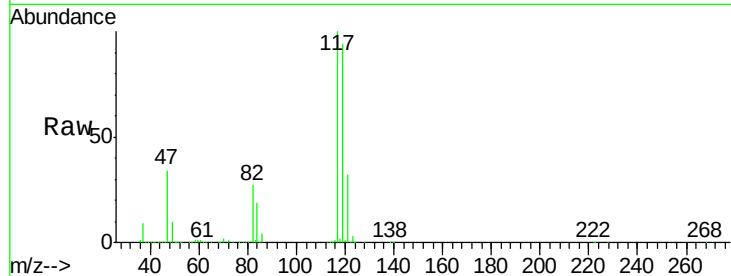
117 100

119 93.7 77.8 116.6

121 31.8 27.4 41.2

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#36

Benzene

Concen: 8.000 ppbv

RT: 6.96 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

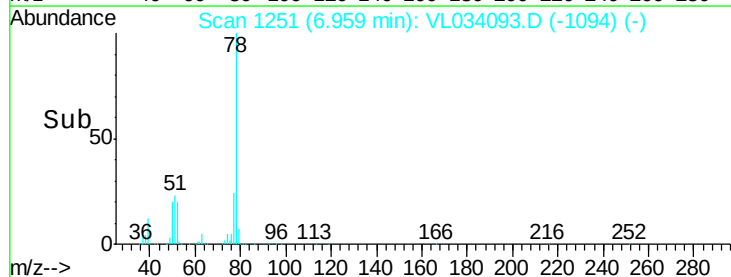
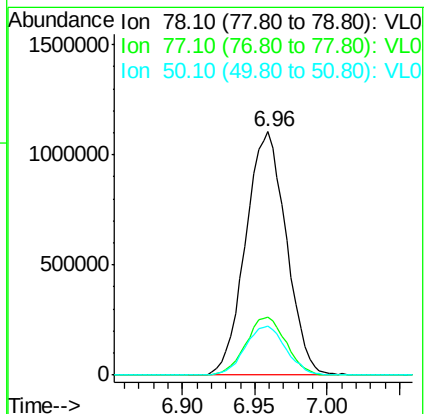
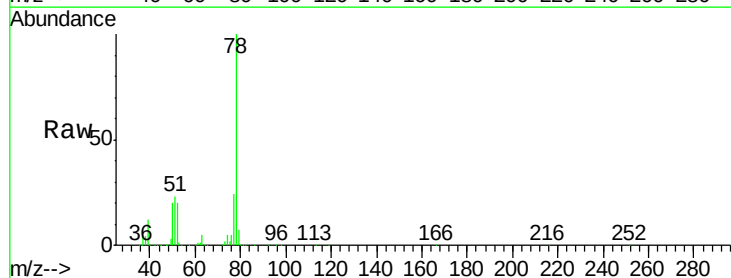
Tgt Ion: 78 Resp: 2153490

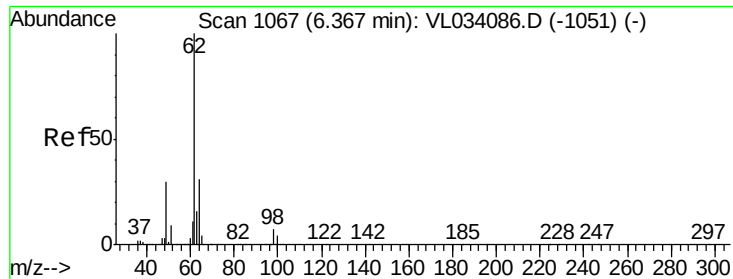
Ion Ratio Lower Upper

78 100

77 23.6 19.9 29.9

50 20.2 16.7 25.1





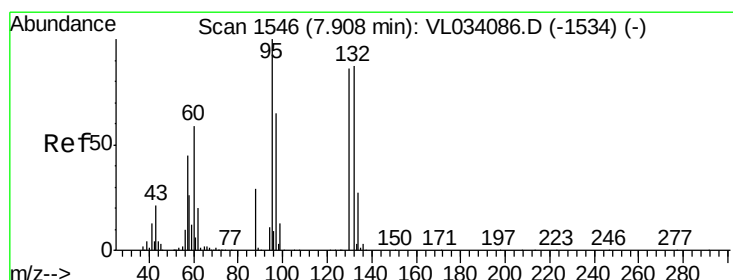
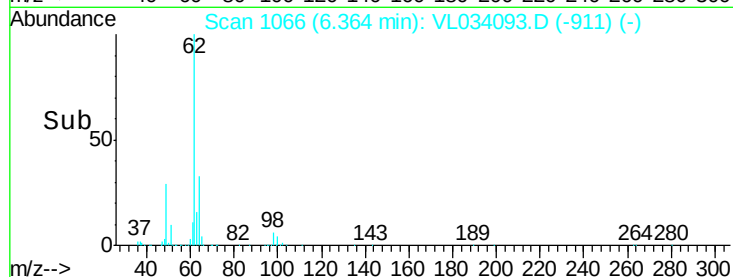
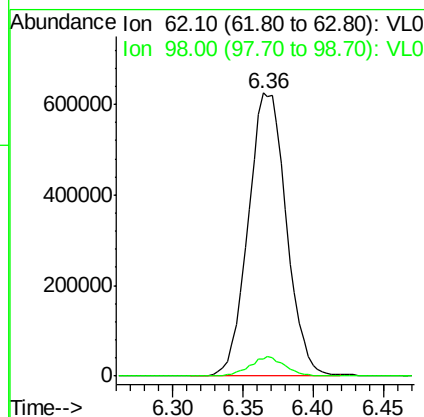
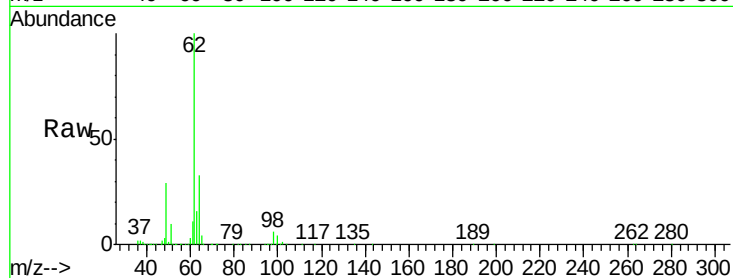
#37
 1,2-Dichloroethane
 Concen: 8.183 ppbv
 RT: 6.36 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion: 62 Resp: 1185199
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.9 7.3

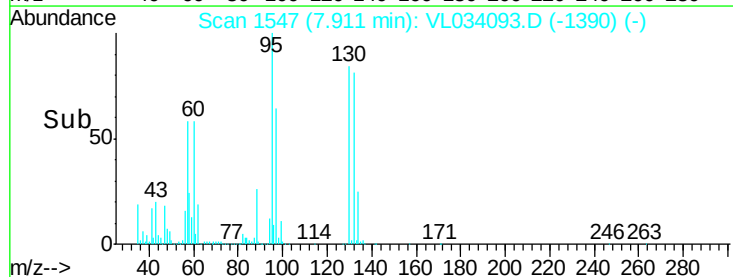
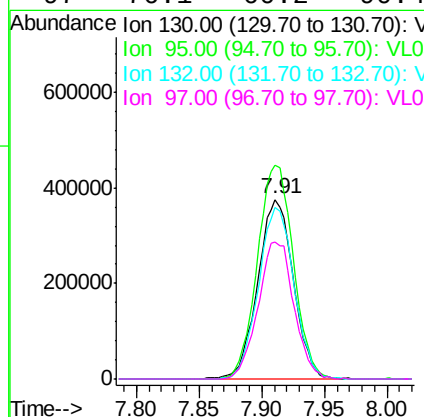
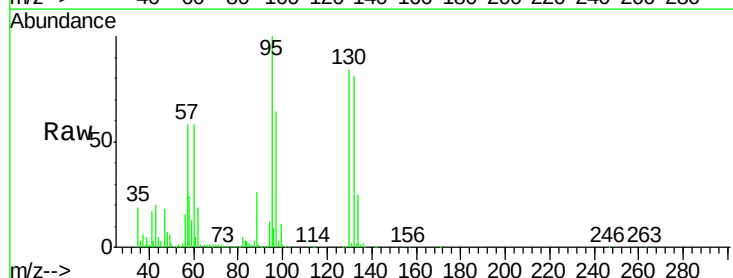
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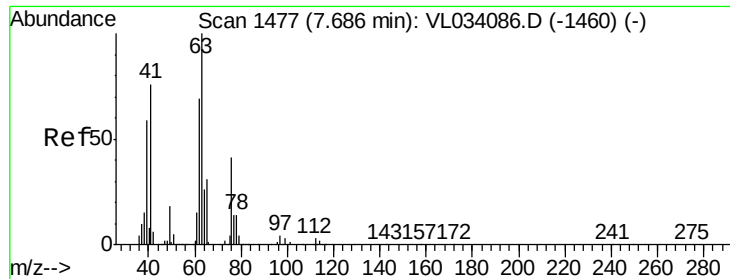
MMDadoda
 8/8/2019 12:41:38 PM



#38
 Trichloroethene
 Concen: 7.112 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion: 130 Resp: 741454
 Ion Ratio Lower Upper
 130 100
 95 118.9 92.1 138.1
 132 95.8 79.7 119.5
 97 76.1 60.2 90.4





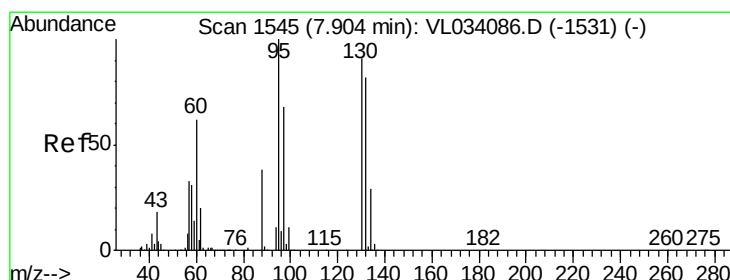
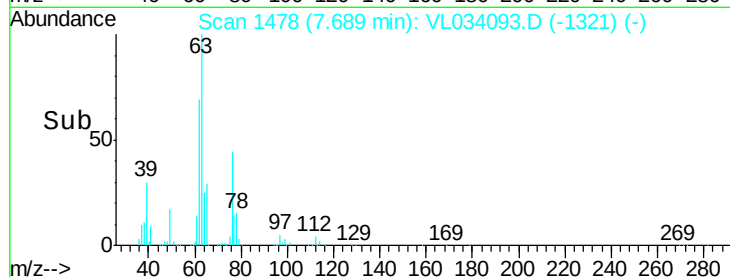
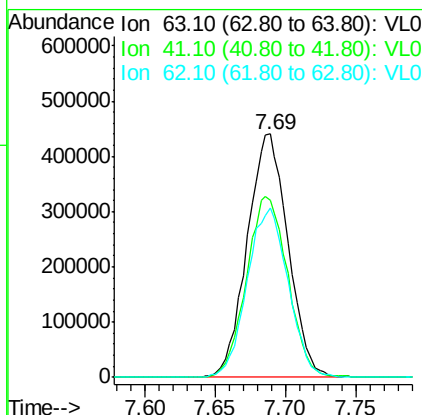
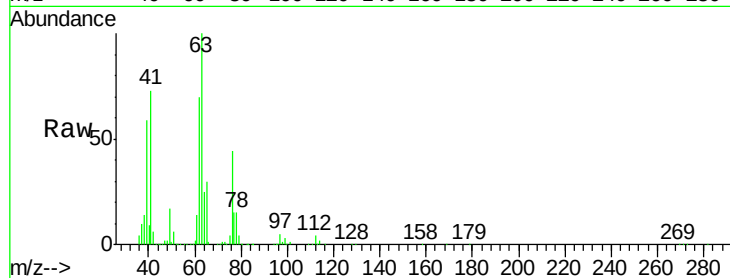
#39
 1,2-Dichloropropane
 Concen: 8.199 ppbv
 RT: 7.69 min Scan# 1478
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ratio	Resp	Lower	Upper
63	100	890563		
41	72.6		60.6	91.0
62	69.5		55.0	82.6

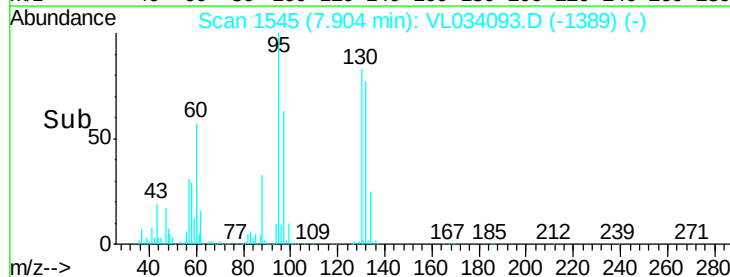
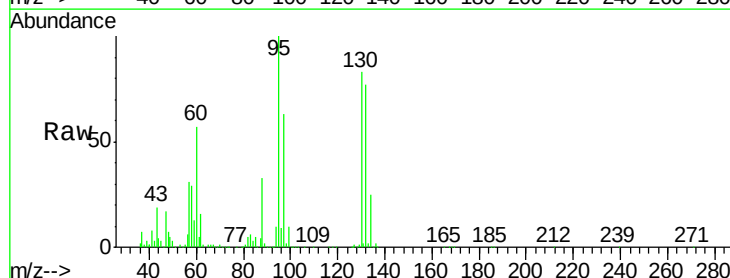
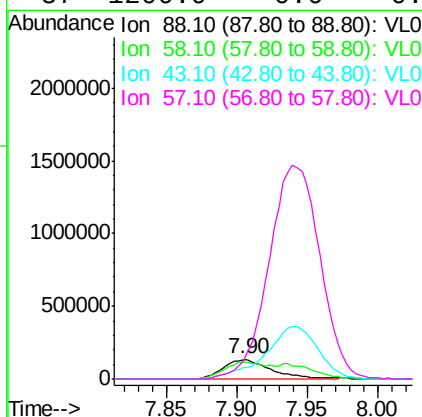
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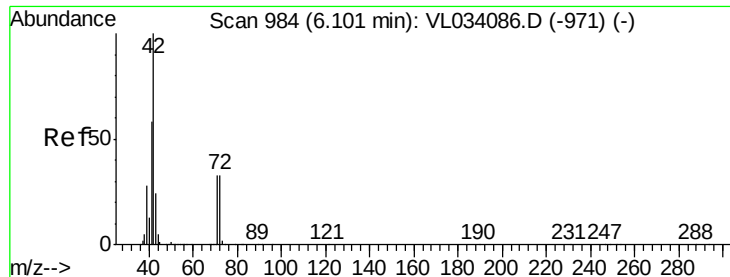
MMDadoda
 8/8/2019 12:41:38 PM



#40
 1,4-Dioxane
 Concen: 7.533 ppbv
 RT: 7.90 min Scan# 1545
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	308750		
58	142.1		113.0	169.4
43	303.0		0.0	0.0#
57	1200.9		0.0	0.0#





#41

Tetrahydrofuran

Concen: 8.187 ppbv

RT: 6.10 min Scan# 984

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

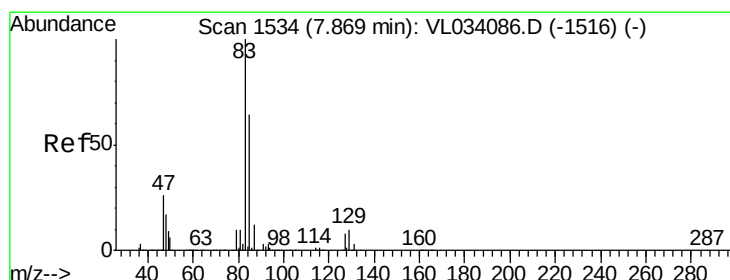
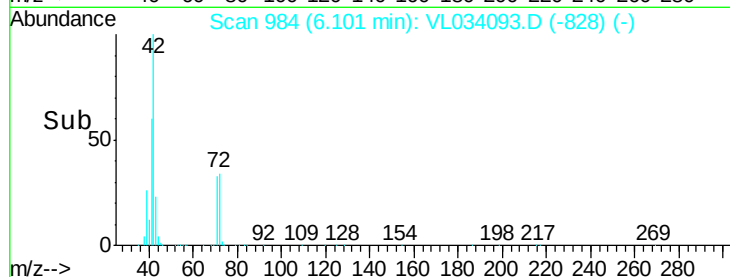
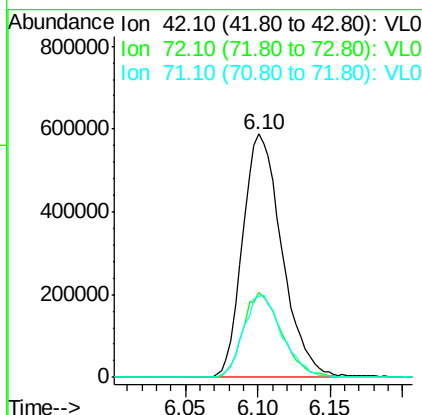
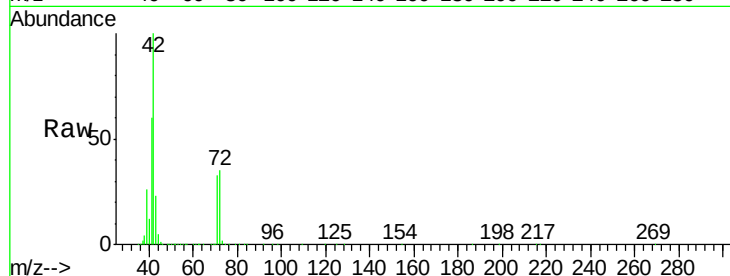
ClientSampleId :

ICVVL080519

Tot Ion:	42	Resp:	1109031
Ion	Ratio	Lower	Upper
42	100		
72	34.1	26.9	40.3
71	33.7	26.5	39.7

Manual Integrations
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#42

Bromodichloromethane

Concen: 8.259 ppbv

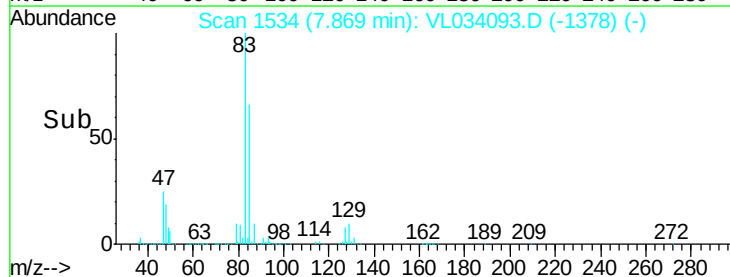
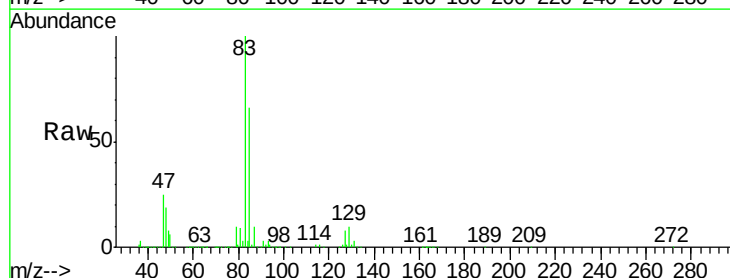
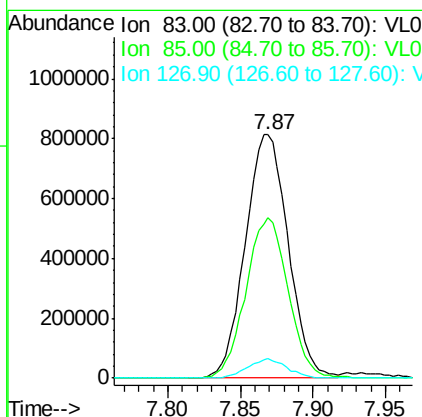
RT: 7.87 min Scan# 1534

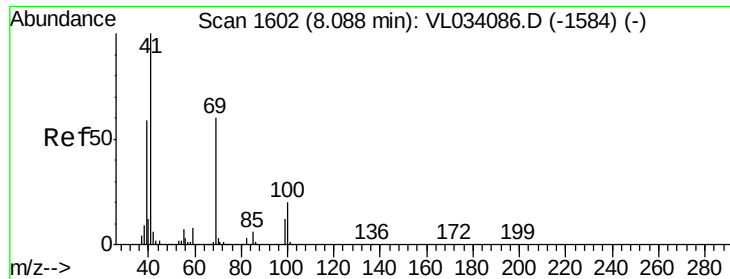
Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:	83	Resp:	1677022
Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.9	76.3
127	7.8	6.1	9.1





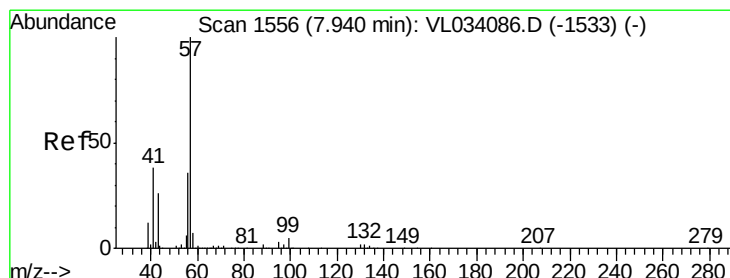
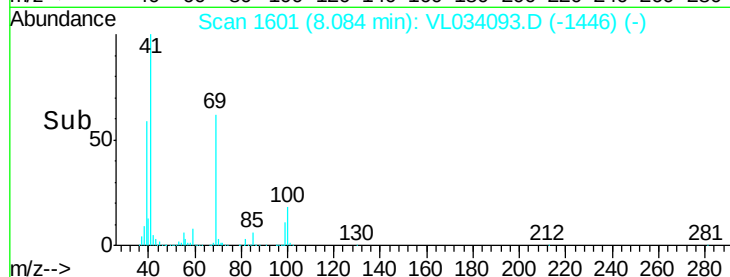
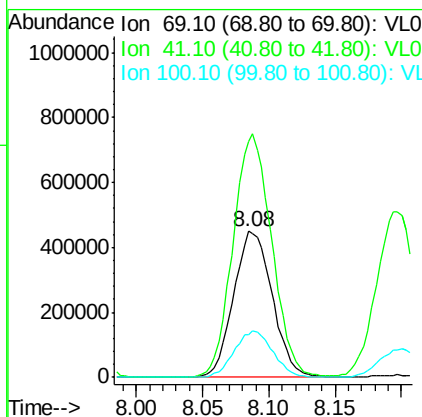
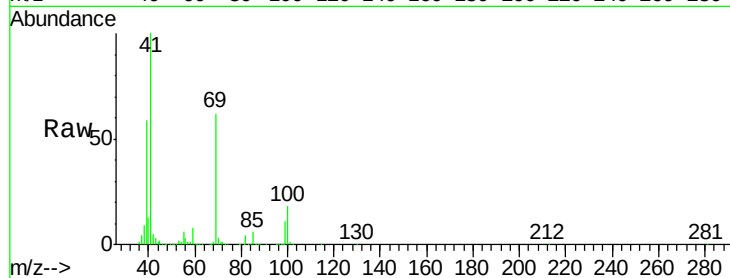
#43
Methyl Methacrylate
Concen: 8.225 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion	Ion	Ratio	Resp	Lower	Upper
69	100		908240		
41	166.6	132.9	199.3		
100	31.8	25.8	38.8		

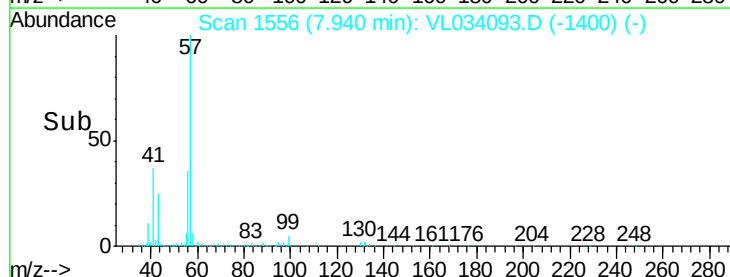
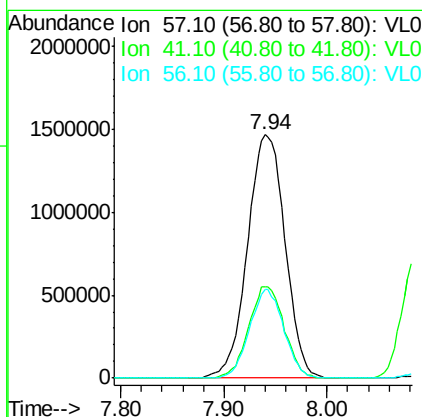
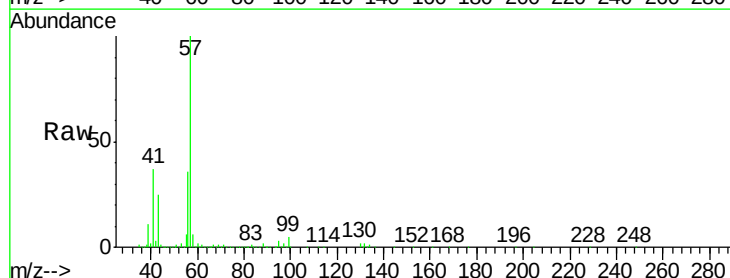
Manual Integrations
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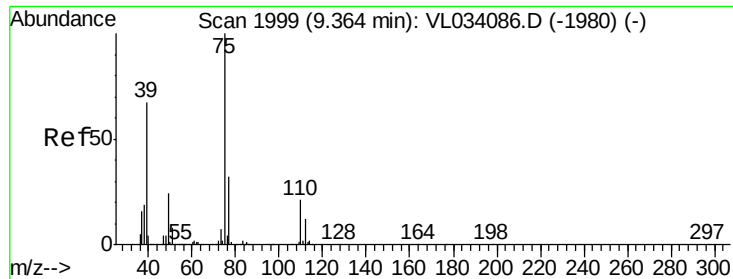
MMDadoda
8/8/2019 12:41:38 PM



#44
2,2,4-Trimethylpentane
Concen: 7.686 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100		3704737		
41	35.5	29.2	43.8		
56	33.3	26.7	40.1		





#45

t-1,3-Dichloropropene

Concen: 8.525 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tot Ion: 75 Resp: 1193300

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5

Instrument :

MSVOA_L

ClientSampleId :

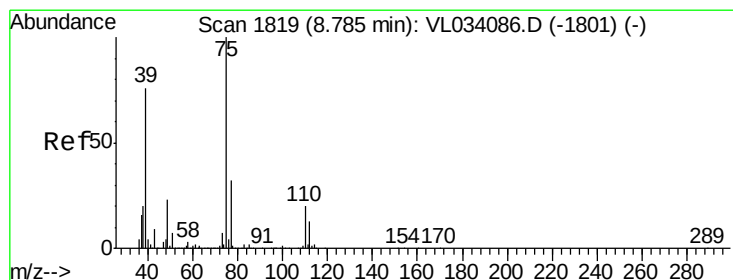
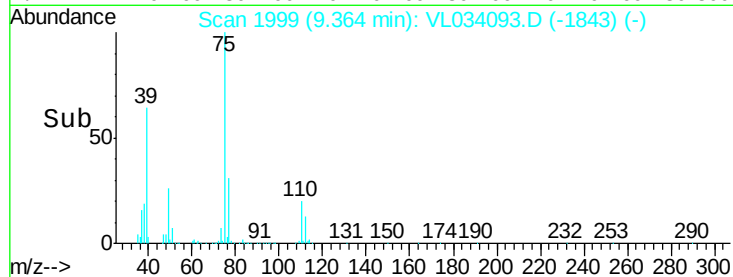
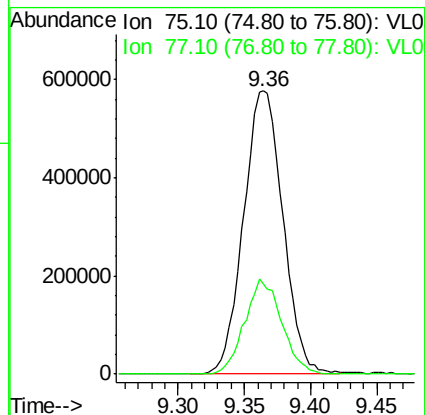
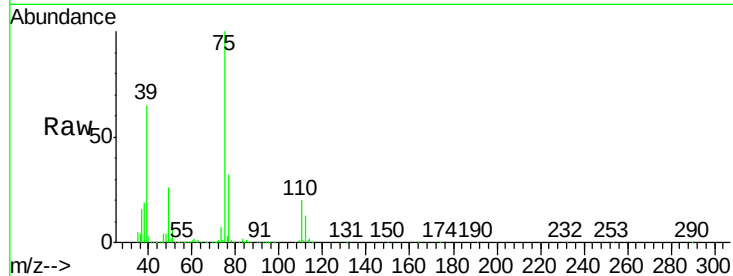
ICVVL080519

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#46

cis-1,3-Dichloropropene

Concen: 8.353 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

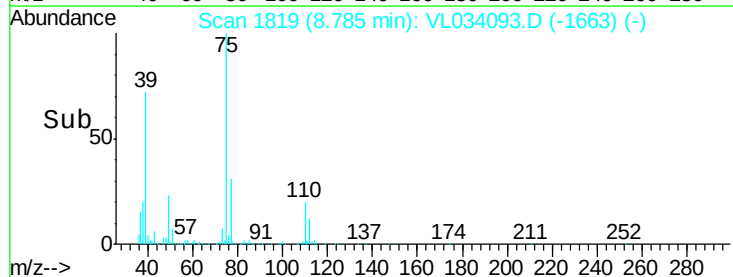
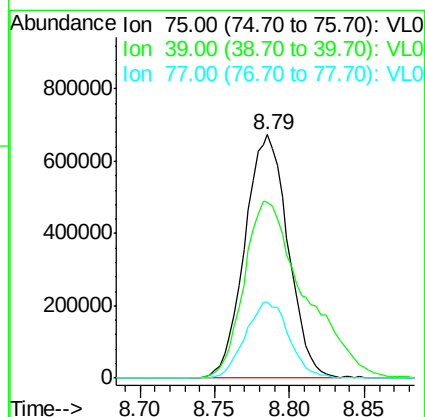
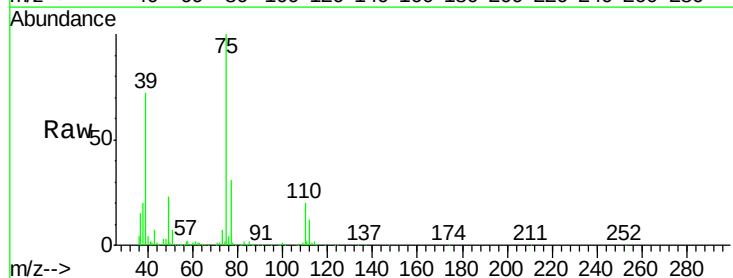
Tgt Ion: 75 Resp: 1349425

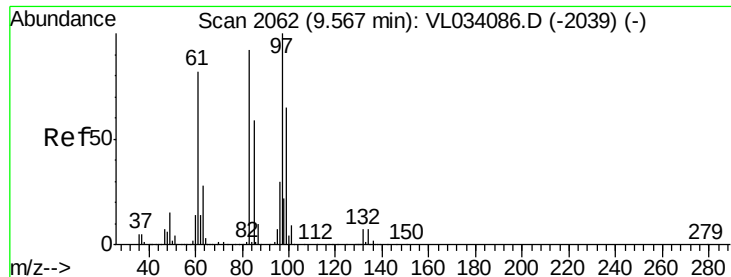
Ion Ratio Lower Upper

75 100

39 72.0 61.0 91.4

77 31.1 25.6 38.4





#47

1,1,2-Trichloroethane

Concen: 8.235 ppbv

RT: 9.56 min Scan# 2061

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

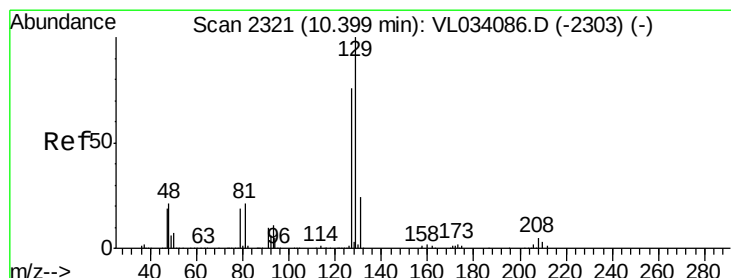
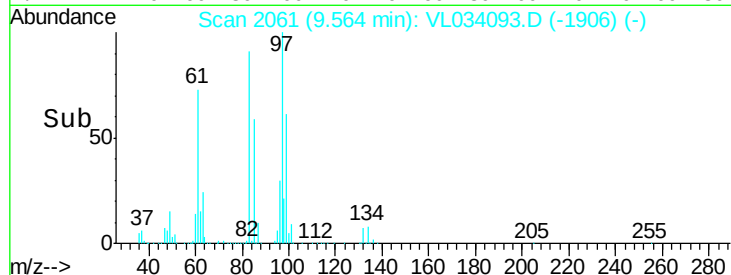
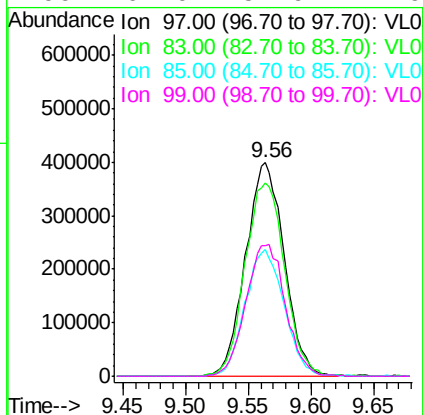
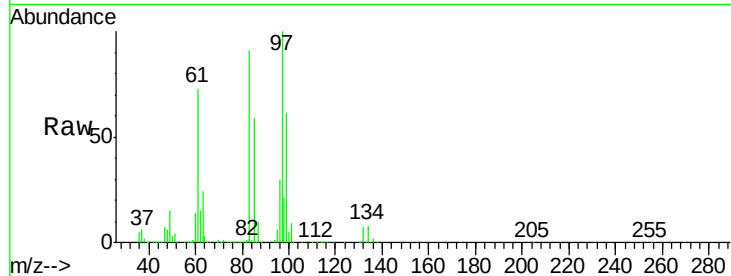
ClientSampleId :

ICVVL080519

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.7	74.0	111.0	
85	59.3	47.1	70.7	
99	61.0	51.9	77.9	

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#48

Dibromochloromethane

Concen: 8.166 ppbv

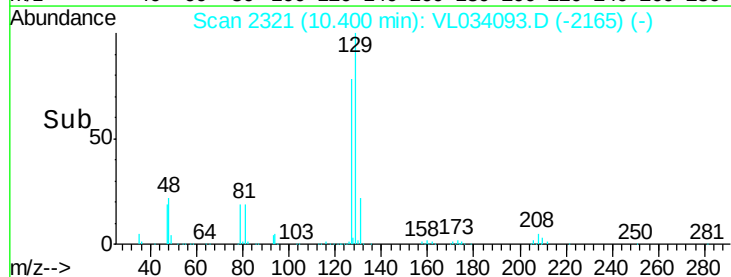
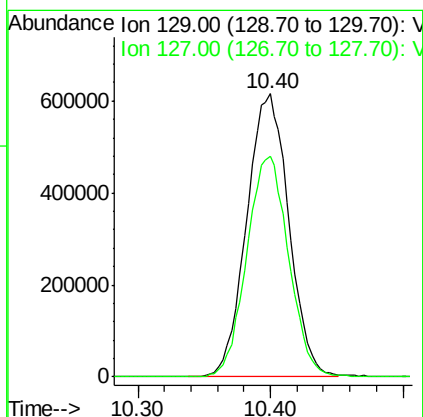
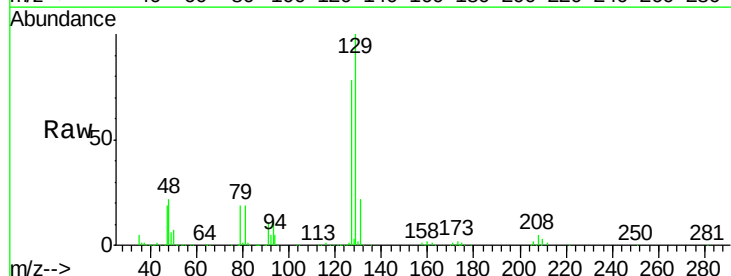
RT: 10.40 min Scan# 2321

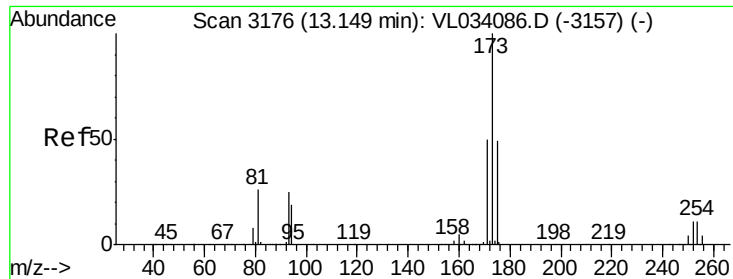
Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.9	39.4	118.2	





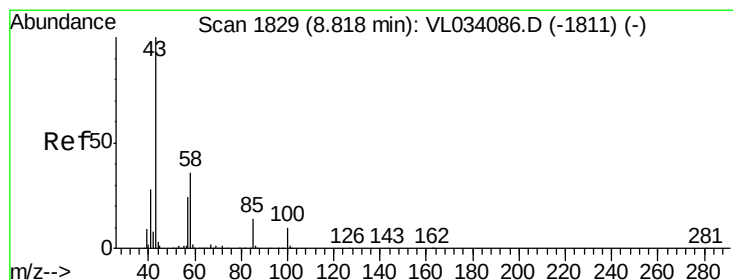
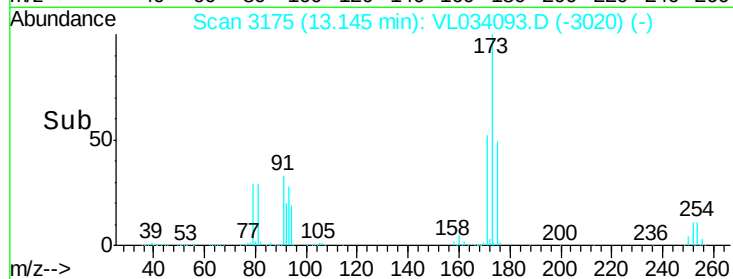
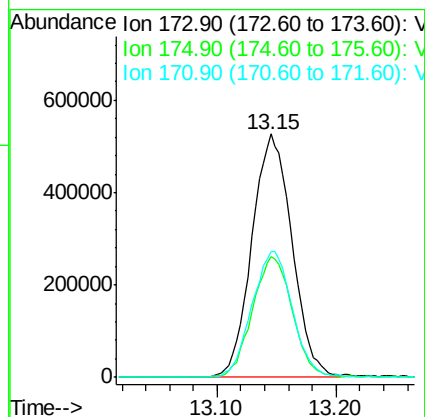
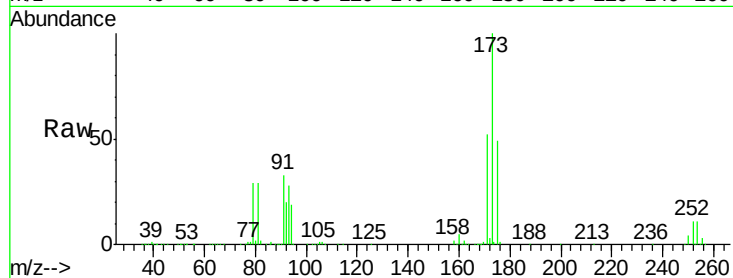
#49
Bromoform
Concen: 8.246 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion:173 Resp: 1227641
Ion Ratio Lower Upper
173 100
175 49.9 39.8 59.8
171 52.4 42.7 64.1

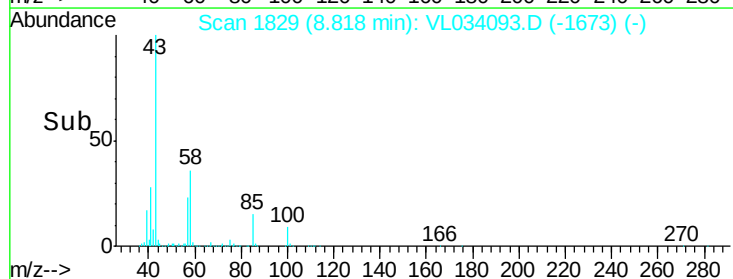
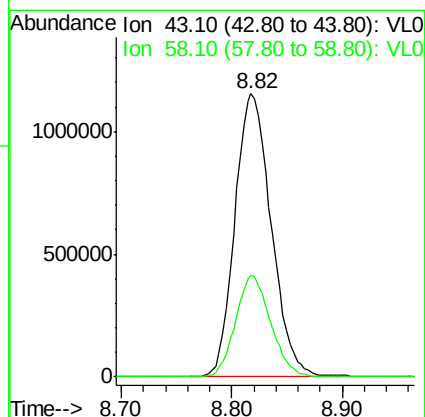
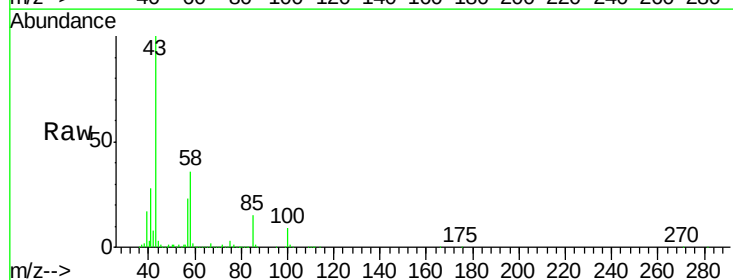
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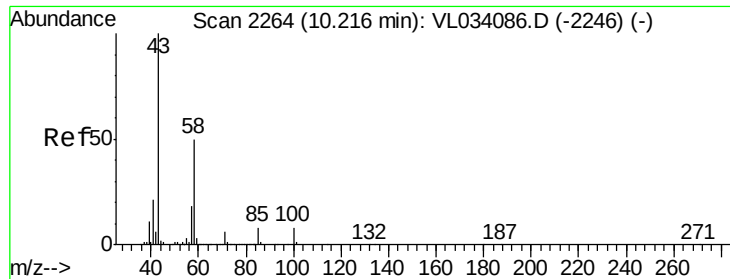
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 7.844 ppbv
RT: 8.82 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion: 43 Resp: 2628764
Ion Ratio Lower Upper
43 100
58 34.8 28.2 42.2





#51

2-Hexanone

Concen: 7.985 ppbv

RT: 10.22 min Scan# 2265

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 43 Resp: 2248930

Ion Ratio Lower Upper

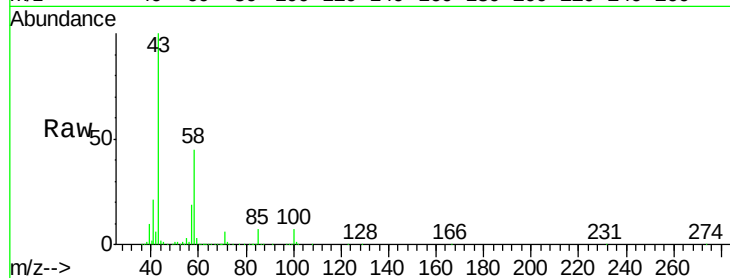
43 100

58 47.2 38.5 57.7

98 0.0 0.0 0.0#

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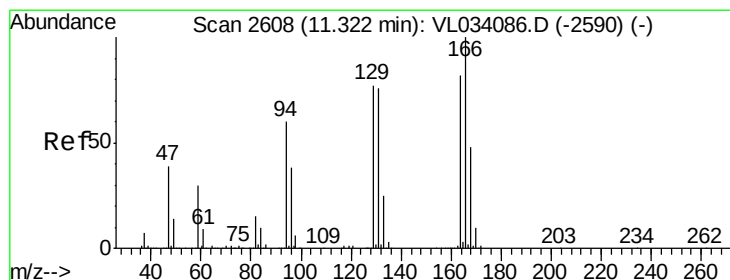
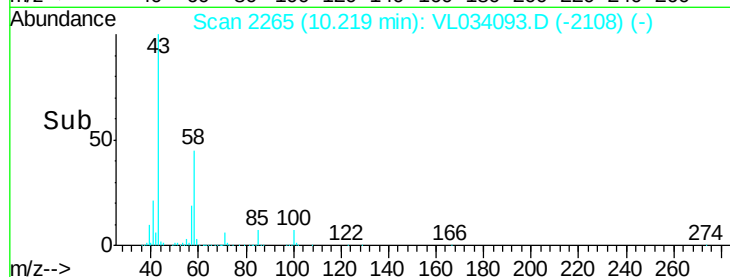
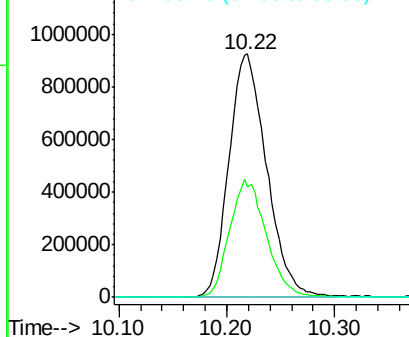


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 7.029 ppbv

RT: 11.32 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion: 164 Resp: 730784

Ion Ratio Lower Upper

164 100

166 120.3 96.8 145.2

129 99.3 74.9 112.3

131 90.8 74.2 111.2

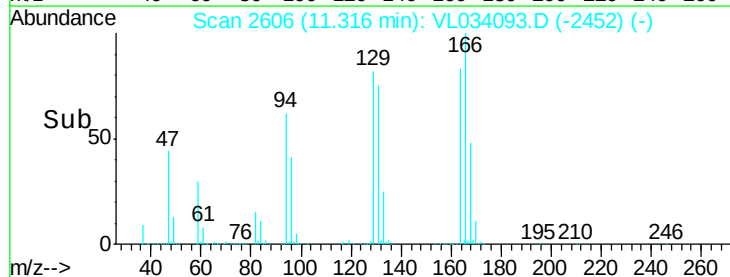
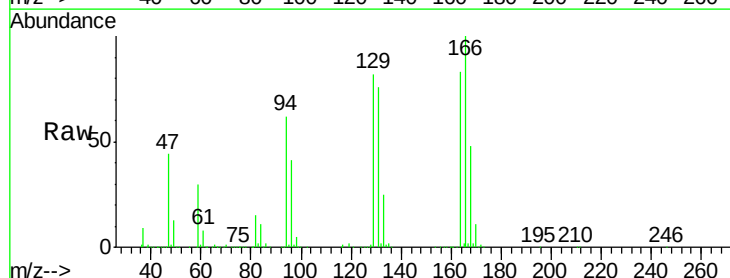
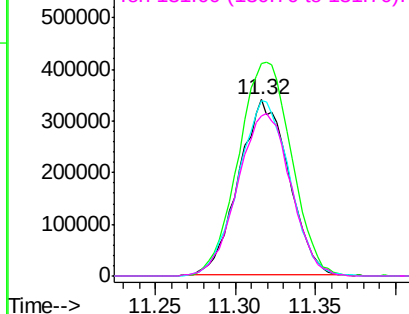
Abundance

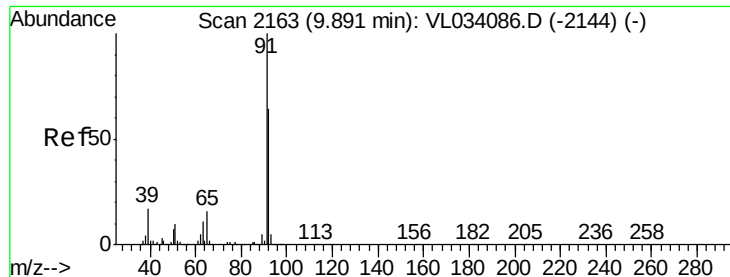
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 7.922 ppbv

RT: 9.89 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 91 Resp: 2461085

Ion Ratio Lower Upper

91 100

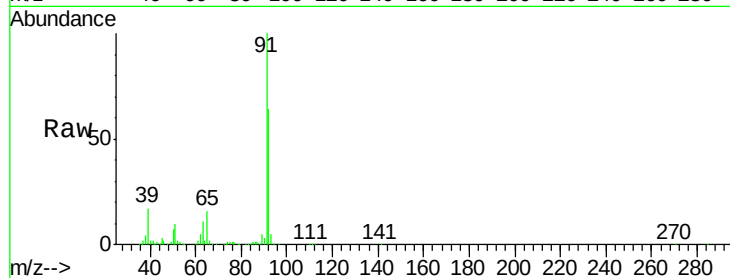
92 62.7 50.3 75.5

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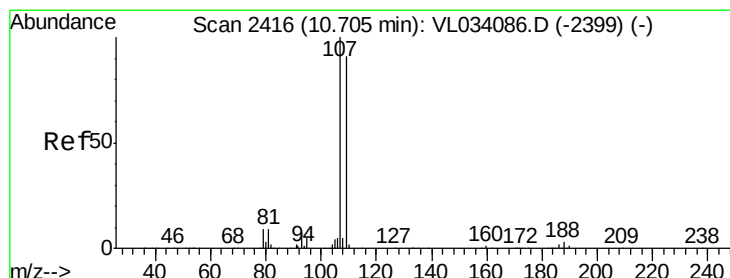
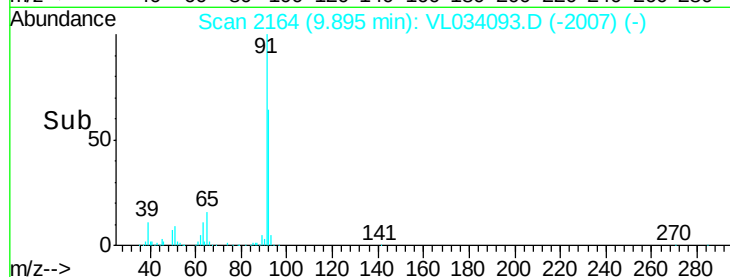
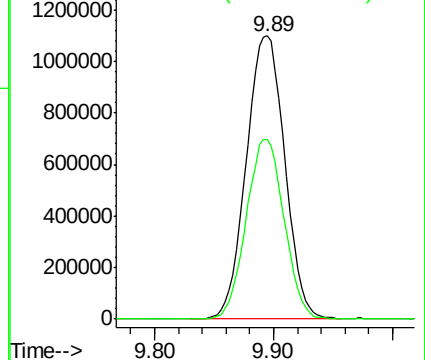
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 8.146 ppbv

RT: 10.70 min Scan# 2416

Delta R.T. 0.00 min

Lab File: VL034093.D

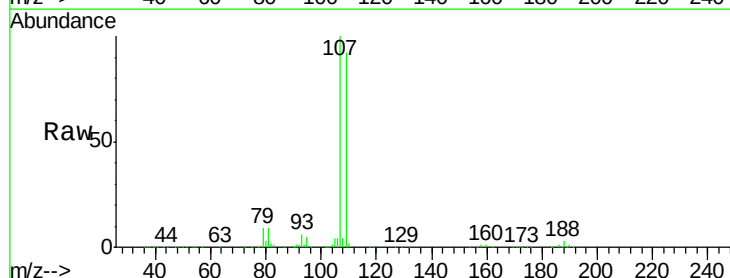
Acq: 5 Aug 2019 18:07

Tgt Ion:107 Resp: 1281549

Ion Ratio Lower Upper

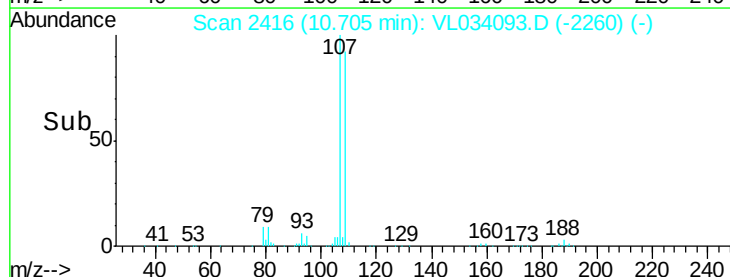
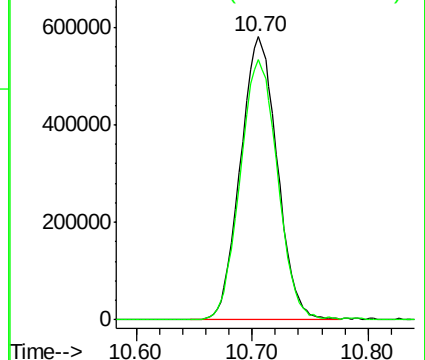
107 100

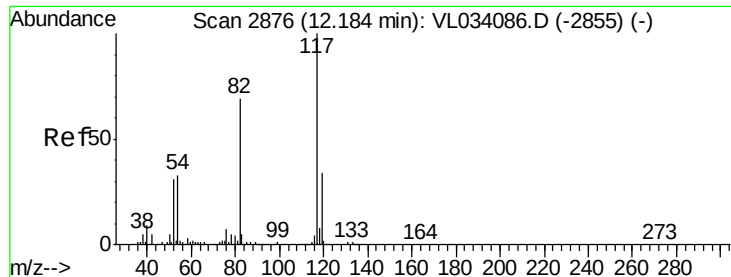
109 92.1 72.9 109.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





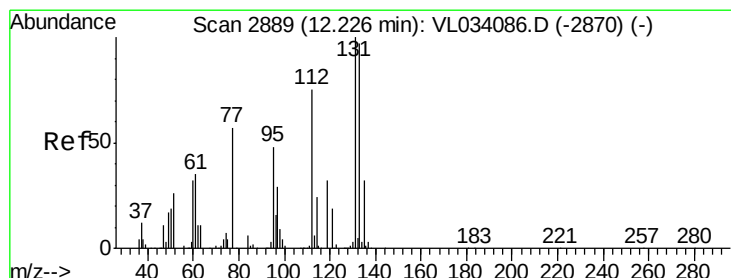
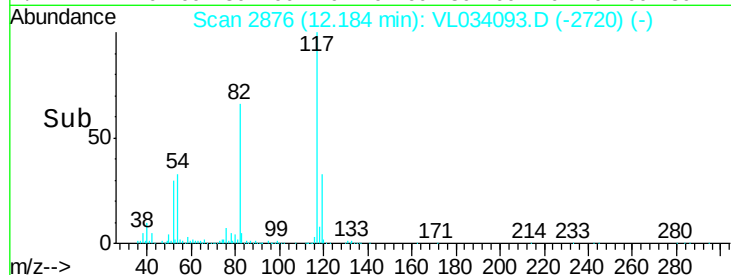
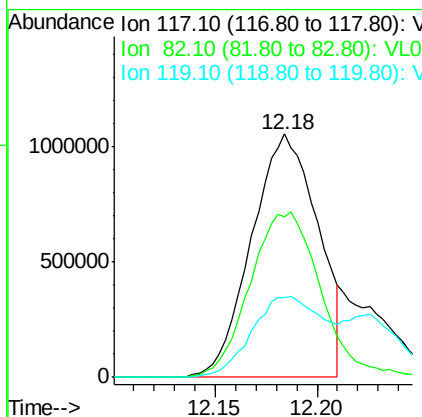
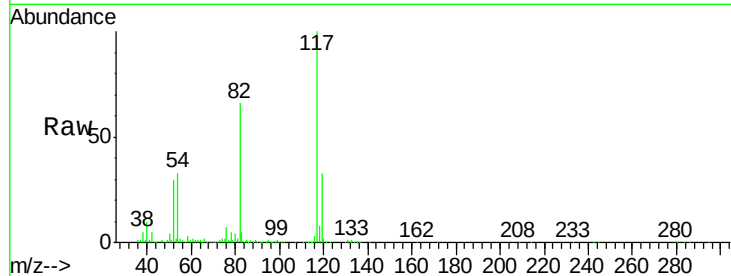
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.18 min Scan# 2876
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion:117 Resp: 2388760
Ion Ratio Lower Upper
117 100
82 73.2 52.2 78.4
119 58.6 44.8 67.2

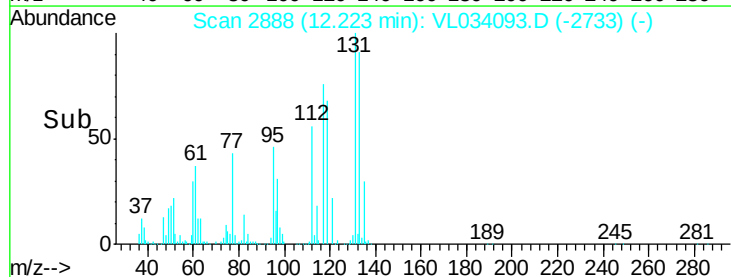
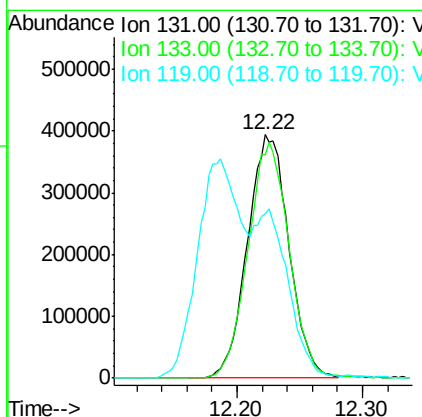
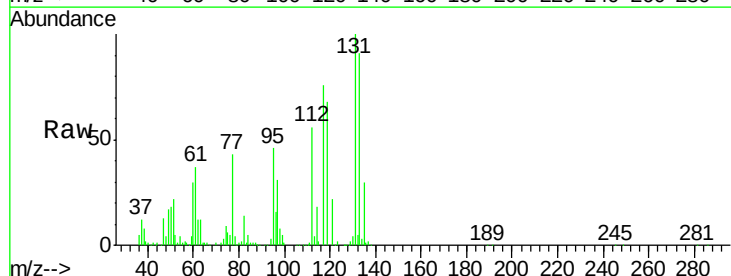
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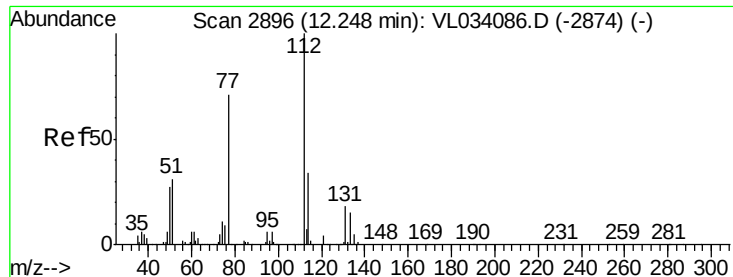
MMDadoda
8/8/2019 12:41:38 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.269 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion:131 Resp: 903091
Ion Ratio Lower Upper
131 100
133 96.9 76.5 114.7
119 154.6 114.7 172.1





#57

Chlorobenzene

Concen: 8.055 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

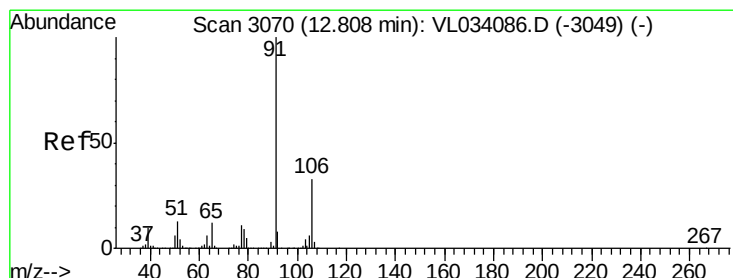
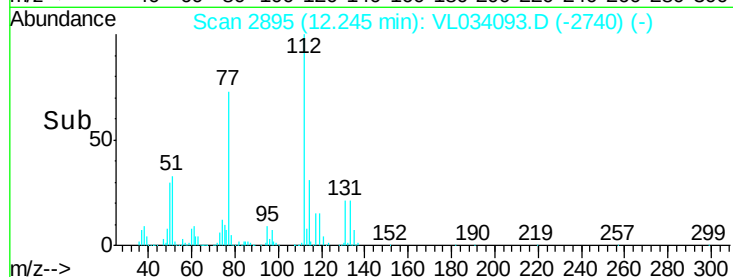
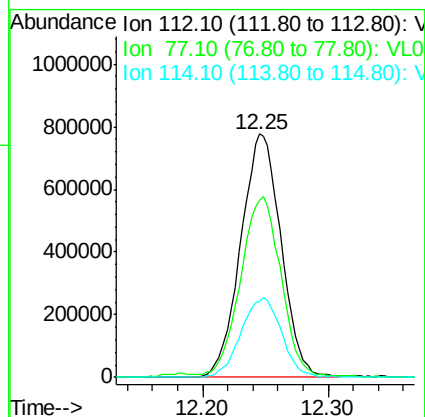
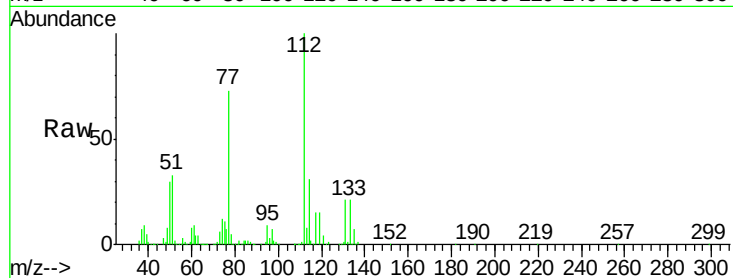
ClientSampleId :

ICVVL080519

Tot Ion:	112	Resp:	1732817
Ion	Ratio	Lower	Upper
112	100		
77	72.5	57.8	86.6
114	31.1	30.3	37.1

Manual Integrations
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#58

Ethyl Benzene

Concen: 8.083 ppbv

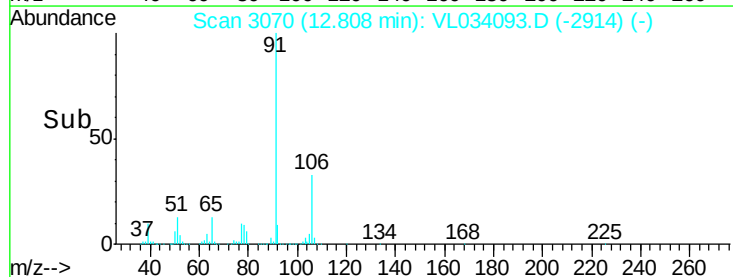
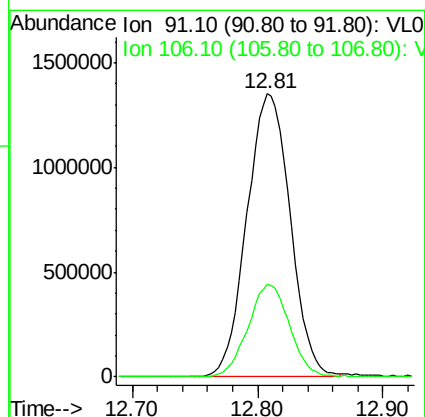
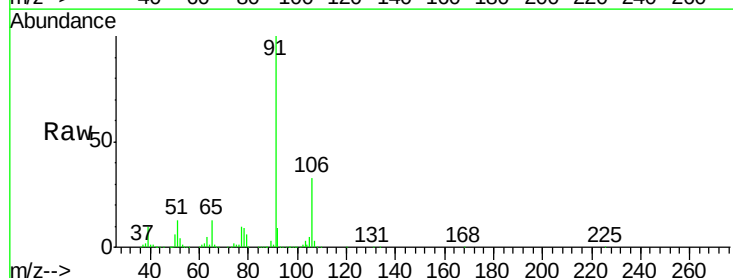
RT: 12.81 min Scan# 3070

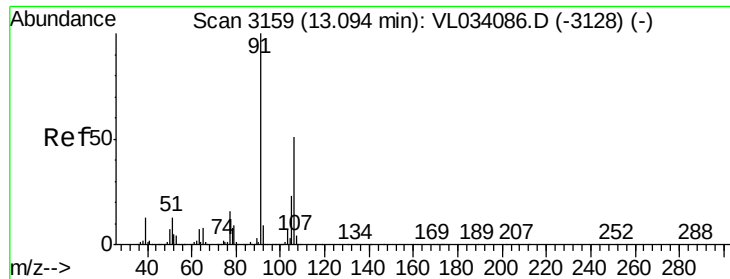
Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:	91	Resp:	3246890
Ion	Ratio	Lower	Upper
91	100		
106	32.8	26.0	39.0





#59

m/p-Xylene

Concen: 16.234 ppbv m

RT: 13.09 min Scan# 3159

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 91 Resp: 5234123

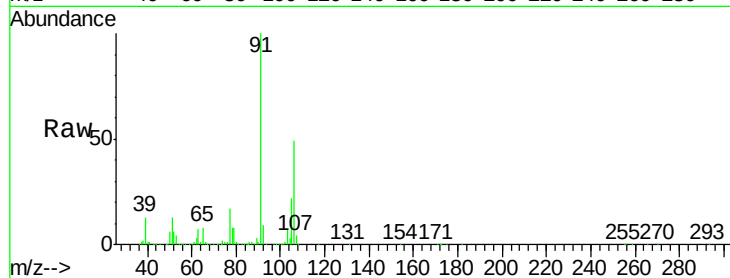
Ion Ratio Lower Upper

91 100

106 46.7 38.7 58.1

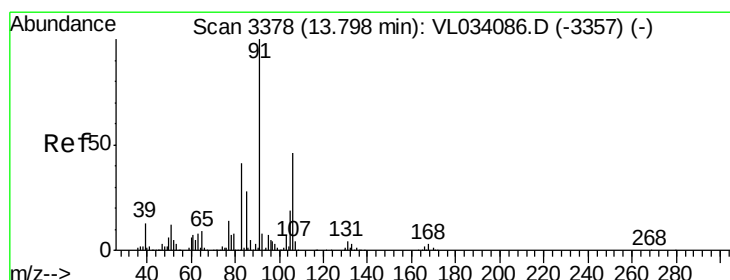
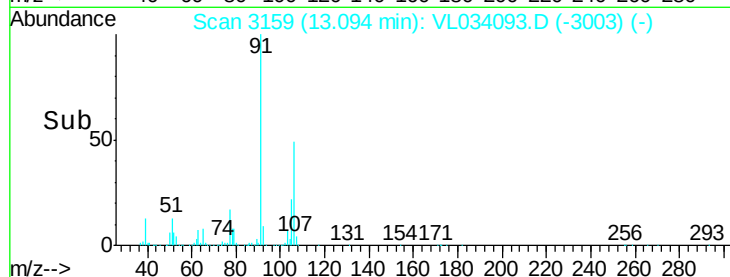
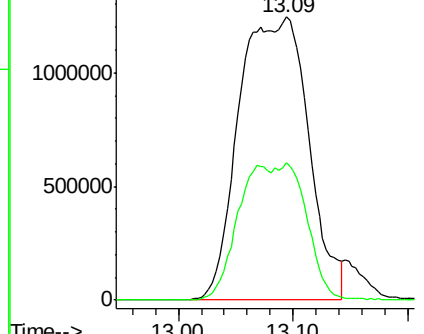
Manual Integrations
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8/8/2019 12:41:38 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 7.988 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.00 min

Lab File: VL034093.D

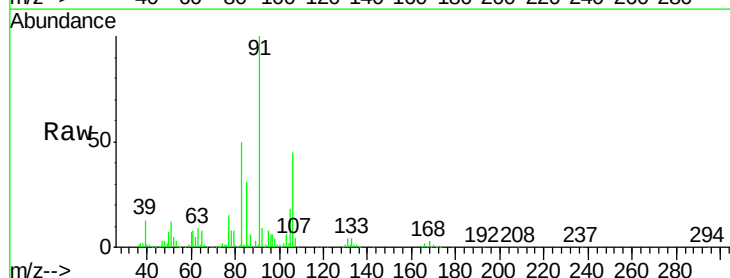
Acq: 5 Aug 2019 18:07

Tgt Ion: 91 Resp: 2573650

Ion Ratio Lower Upper

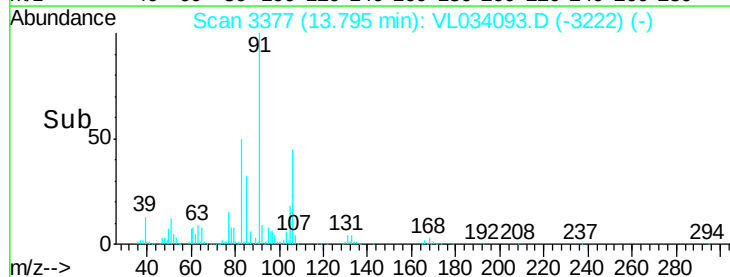
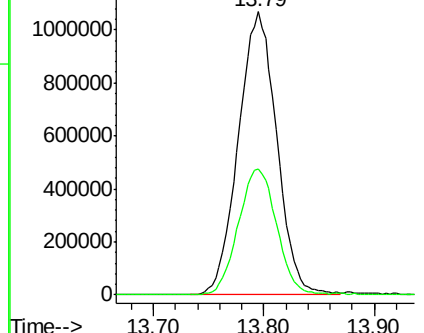
91 100

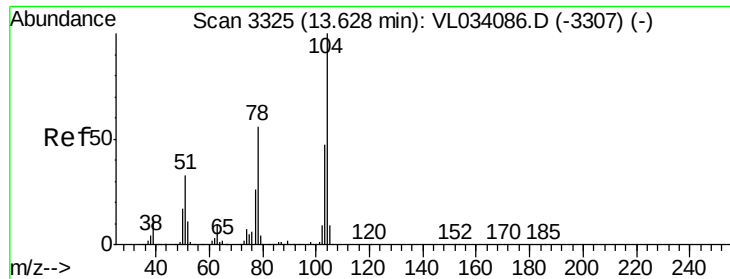
106 45.1 22.6 67.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





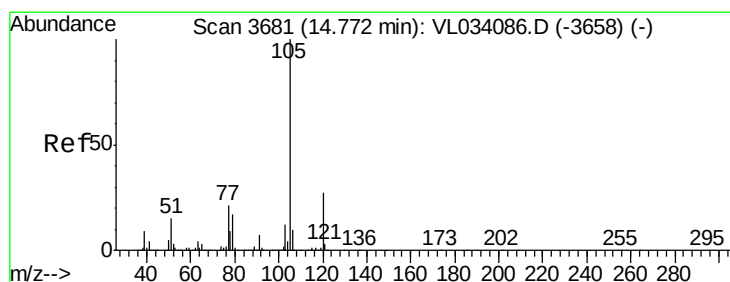
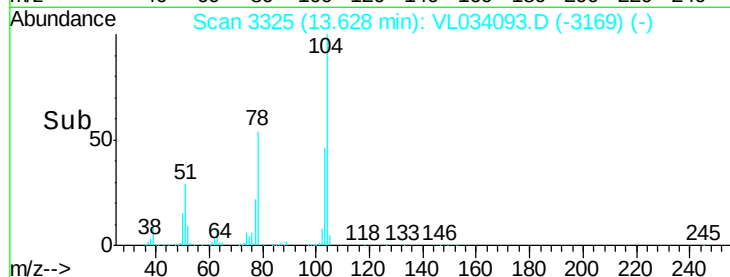
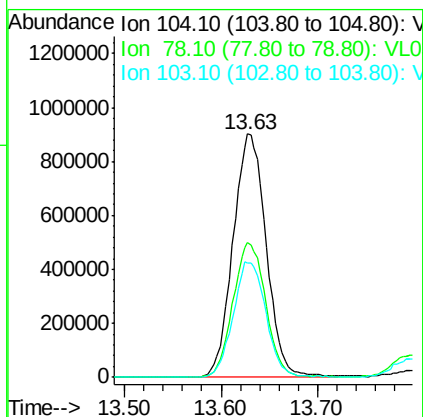
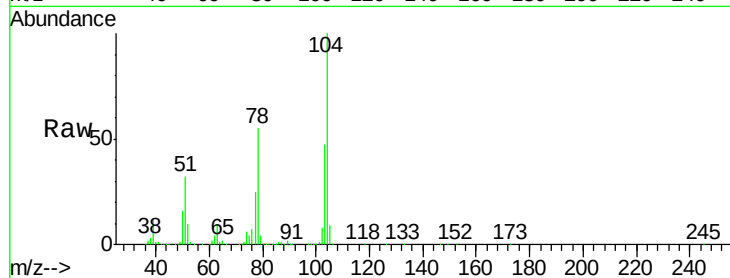
#61
Stvrene
Concen: 8.407 ppbv
RT: 13.63 min Scan# 3325
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.9	44.2	66.4
103	47.3	38.3	57.5

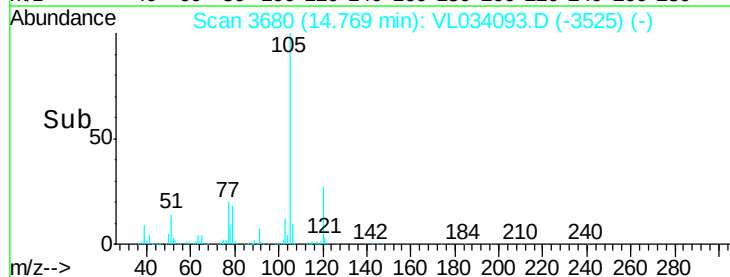
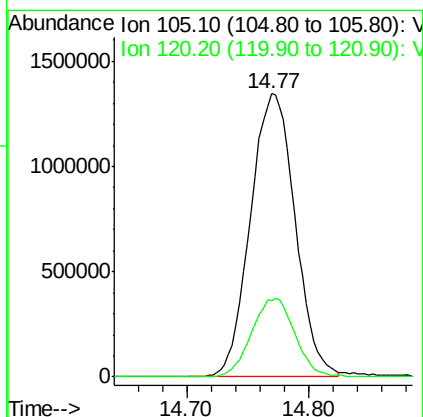
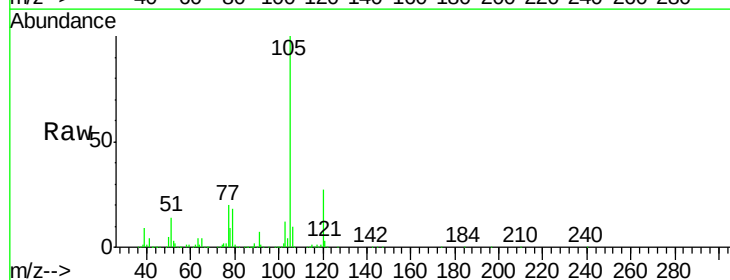
Manual Integrations
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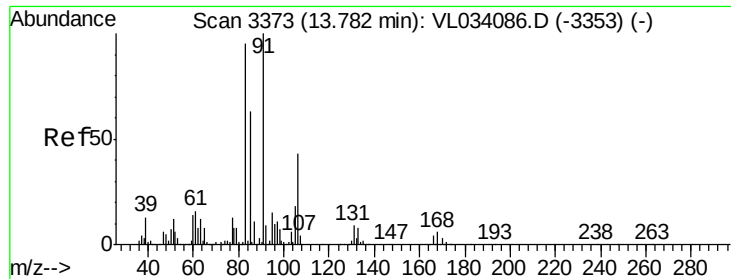
MMDadoda
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#62
Isopropylbenzene
Concen: 7.893 ppbv
RT: 14.77 min Scan# 3680
Delta R.T. -0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	21.4	32.2





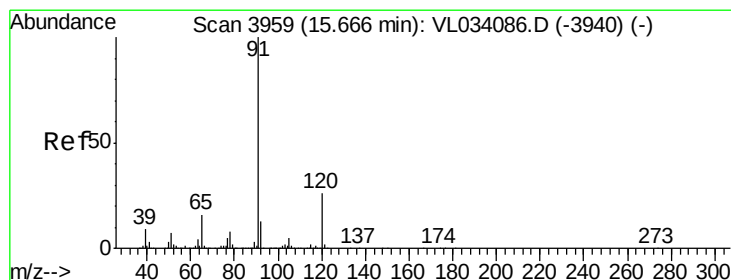
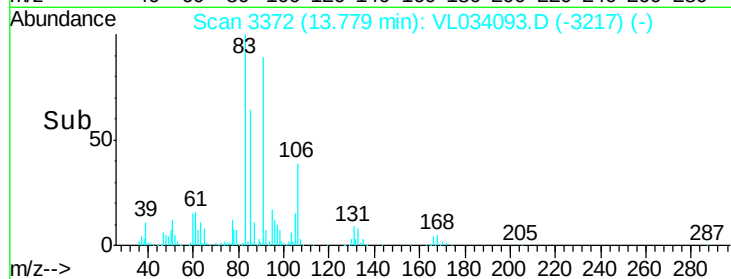
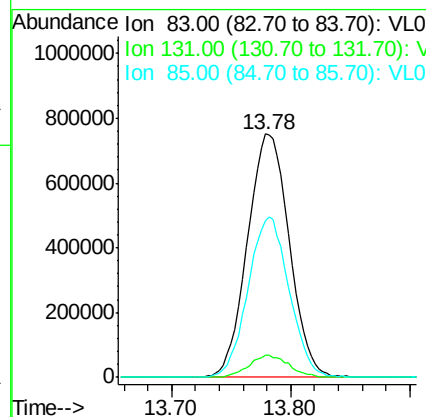
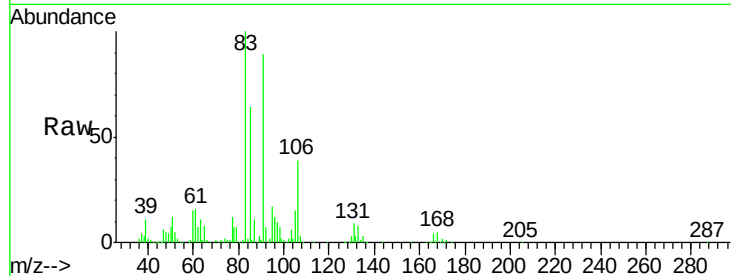
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.857 ppbv
 RT: 13.78 min Scan# 3372
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.7	4.6	13.8
85	65.0	32.6	97.8

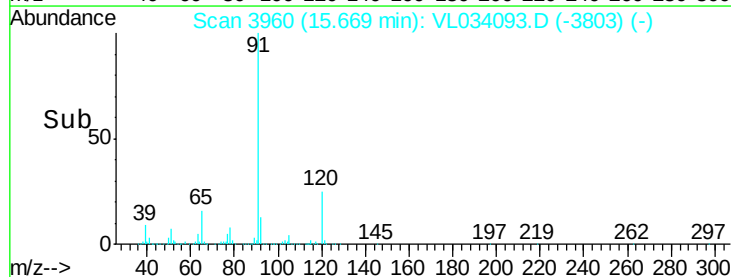
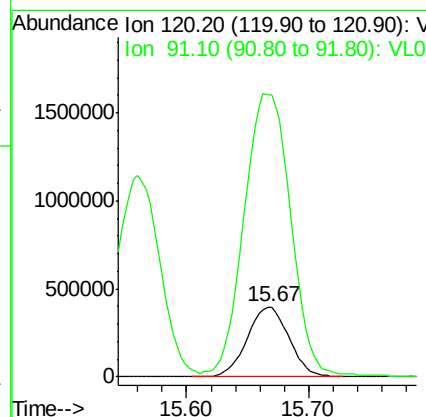
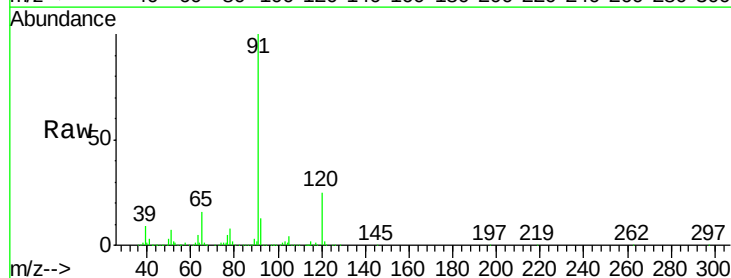
Manual Integrations
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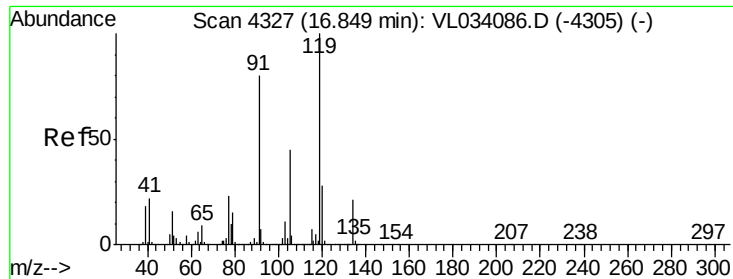
MMDadoda
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#64
 n-propylbenzene
 Concen: 8.190 ppbv
 RT: 15.67 min Scan# 3960
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
120	100		
91	456.7	359.7	539.5





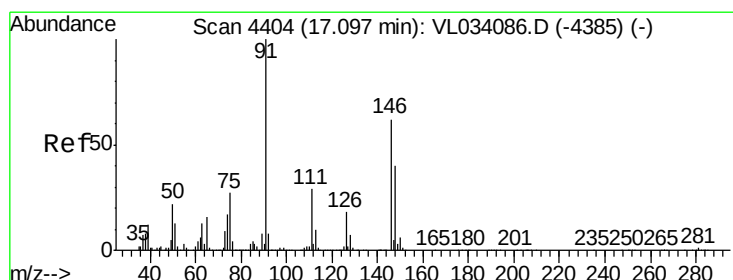
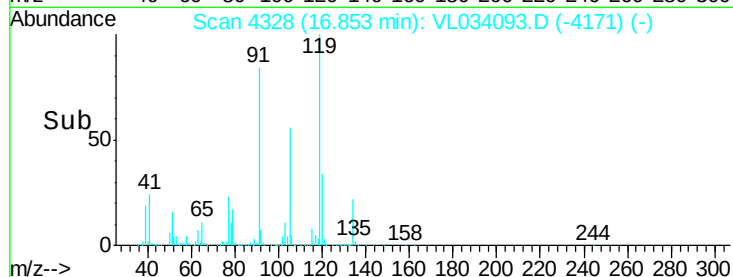
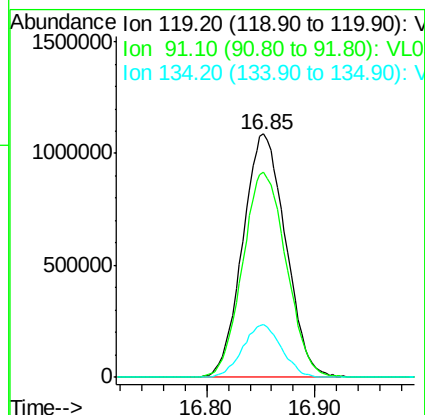
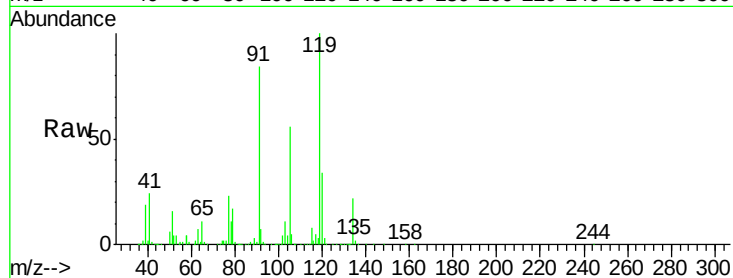
#65
tert-Butylbenzene
Concen: 7.783 ppbv
RT: 16.85 min Scan# 4328
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion	Ratio	Lower	Upper
119	100		
91	86.0	67.6	101.4
134	19.9	16.0	24.0

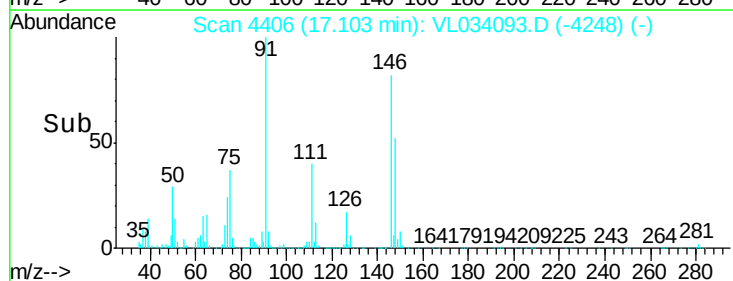
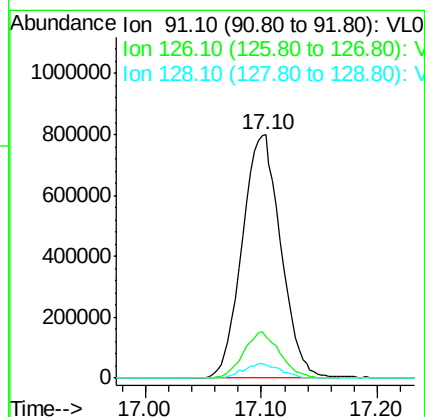
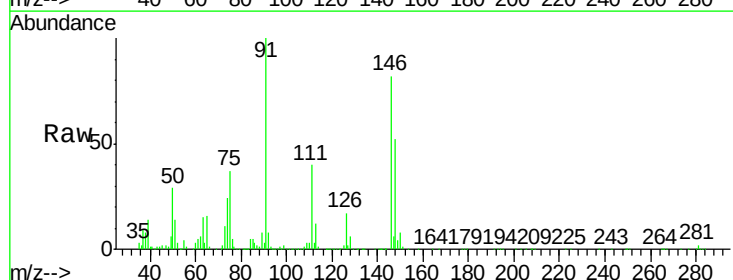
Manual Integrations
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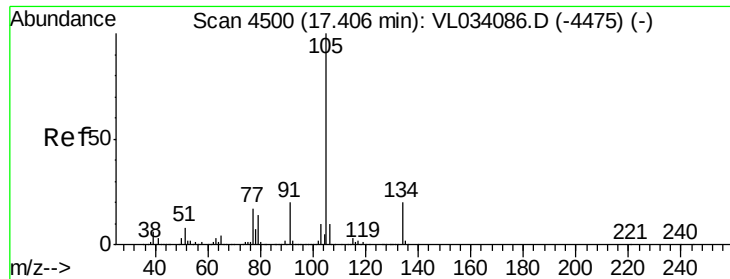
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#66
Benzyl Chloride
Concen: 8.661 ppbv
RT: 17.10 min Scan# 4406
Delta R.T. 0.01 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.8	22.2
128	5.8	4.8	7.2





#67

sec-Butylbenzene

Concen: 7.727 ppbv

RT: 17.40 min Scan# 4499

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 105 Resp: 4201255

Ion Ratio Lower Upper

105 100

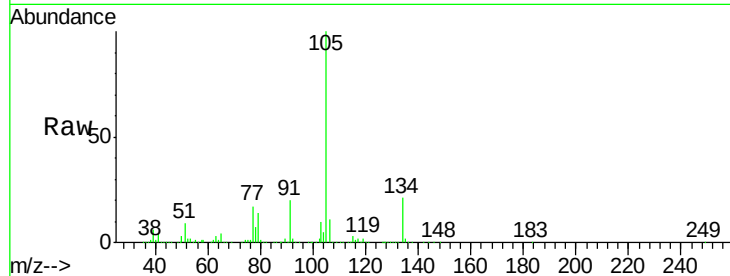
134 19.2 15.4 23.2

Manual Integrations

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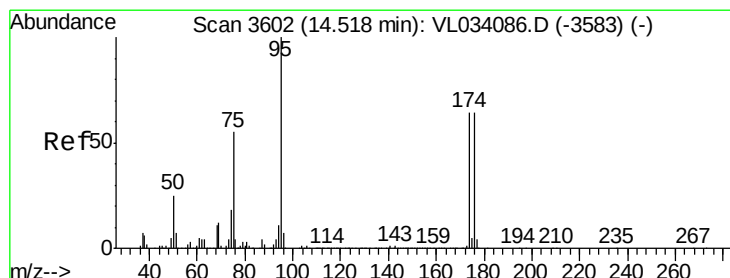
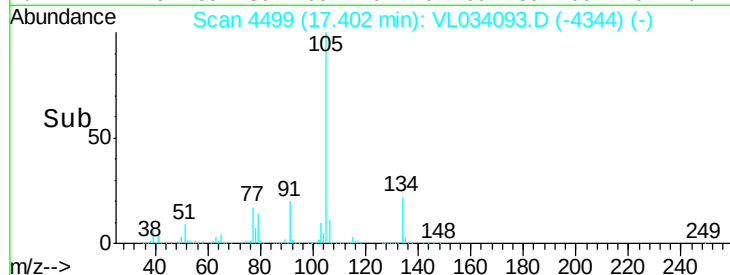
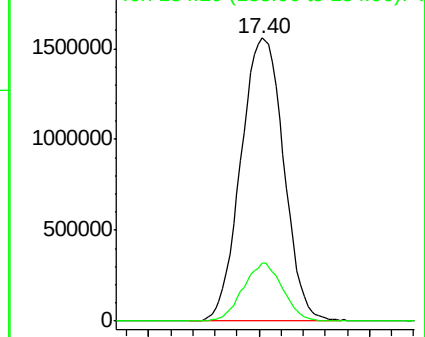
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.466 ppbv

RT: 14.52 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

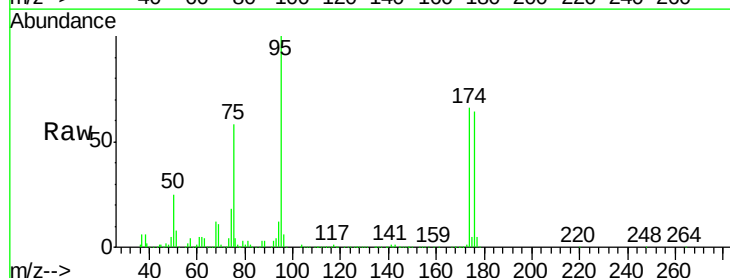
Tgt Ion: 95 Resp: 2028585

Ion Ratio Lower Upper

95 100

174 66.7 53.0 79.6

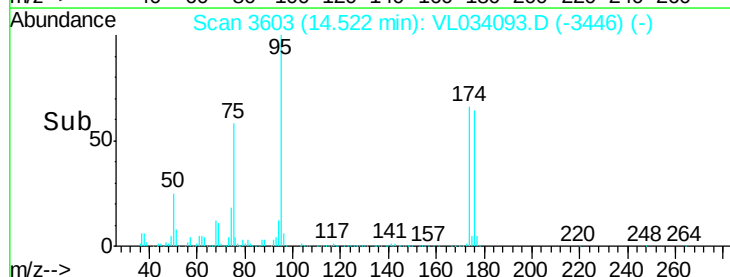
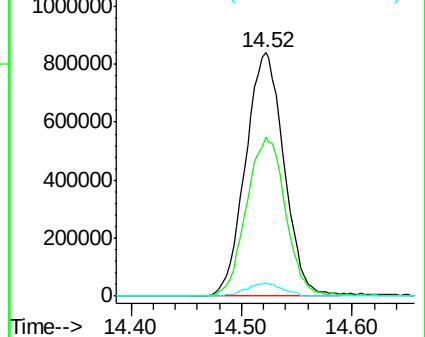
175 5.2 4.2 6.2

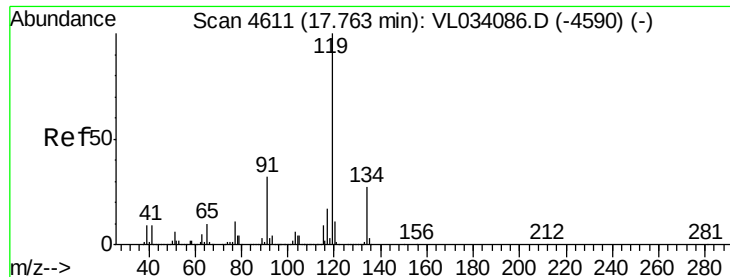


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





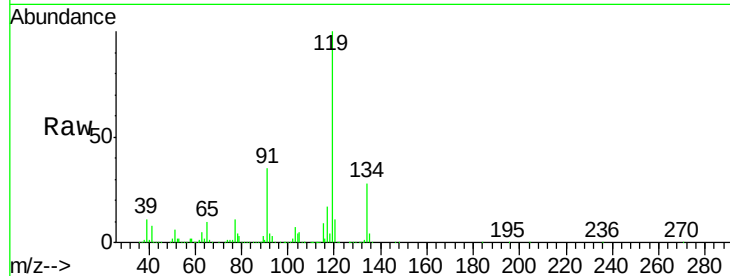
#69
 p-Isopropyltoluene
 Concen: 7.789 ppbv
 RT: 17.76 min Scan# 4610
 Delta R.T. -0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

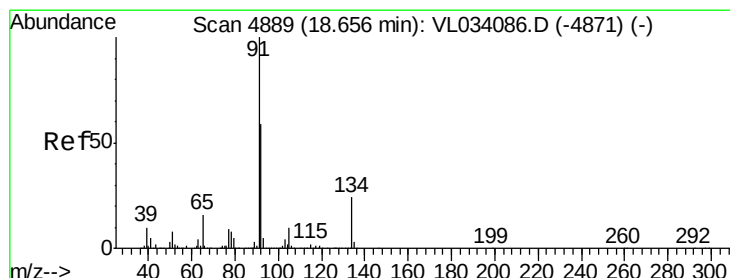
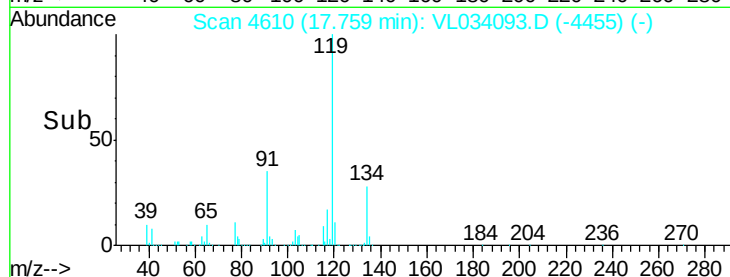
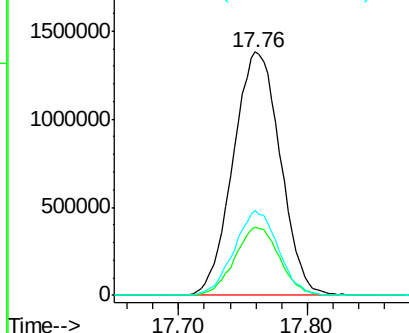
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.8	21.3	31.9
91	32.9	25.4	38.0

Manual Integrations
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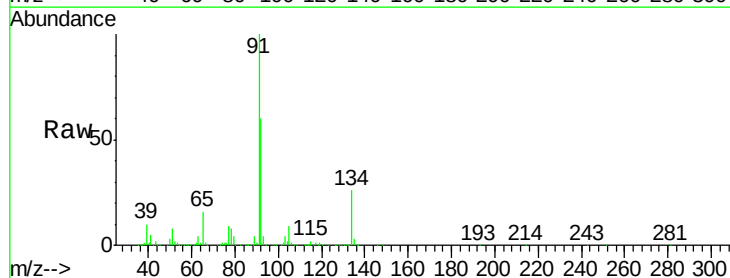


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

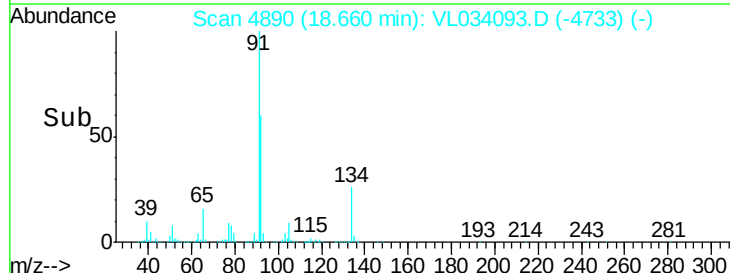
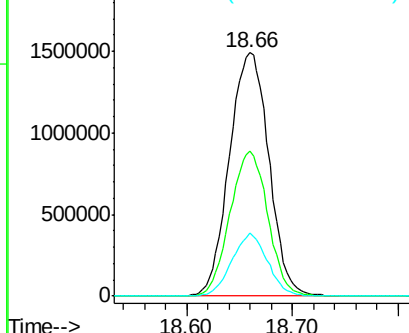


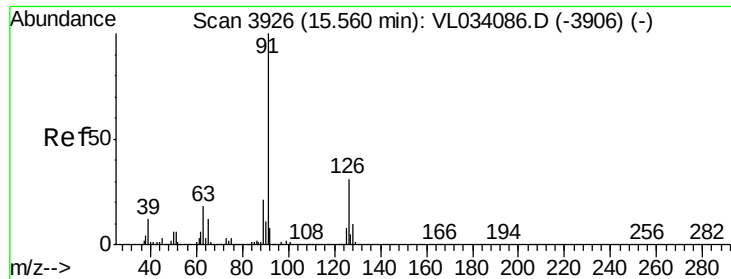
#70
 n-Butylbenzene
 Concen: 7.992 ppbv
 RT: 18.66 min Scan# 4890
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	45.9	68.9
134	23.4	19.0	28.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.079 ppbv

RT: 15.56 min Scan# 3926

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion: 91 Resp: 2809616

Ion Ratio Lower Upper

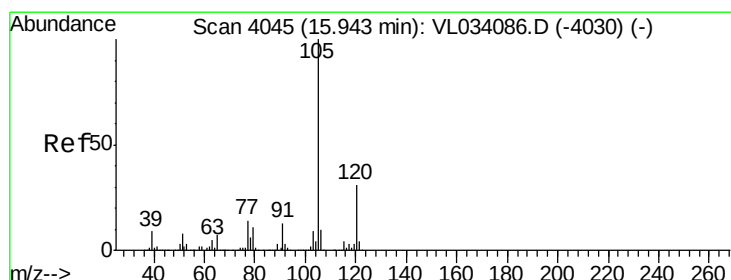
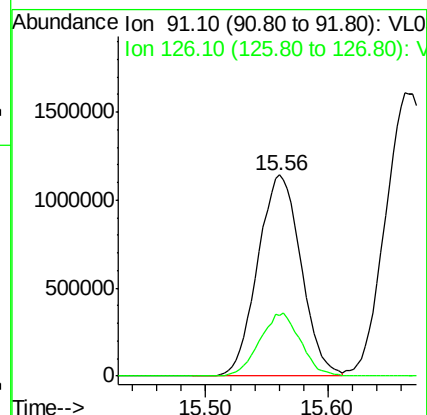
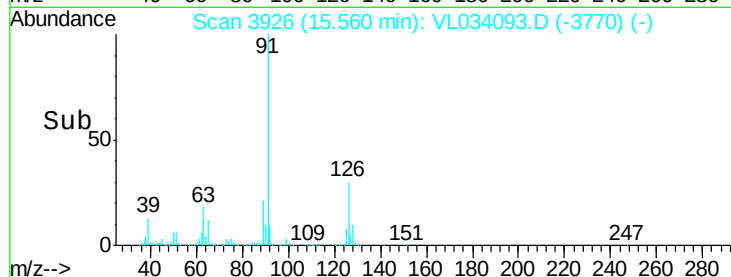
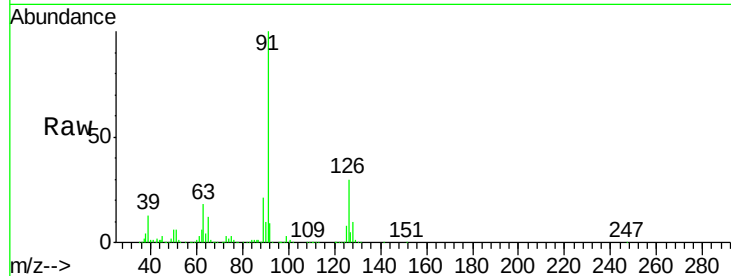
91 100

126 29.9 12.2 48.6

Manual Integrations
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#72

4-Ethyltoluene

Concen: 8.167 ppbv

RT: 15.95 min Scan# 4047

Delta R.T. 0.01 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:105 Resp: 3097031

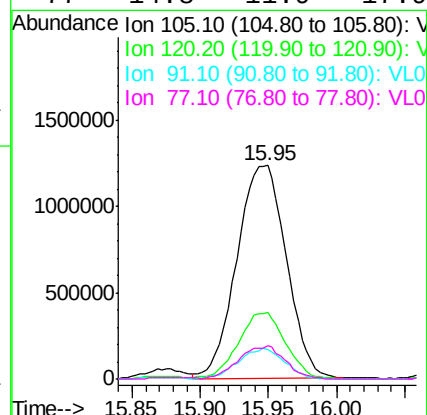
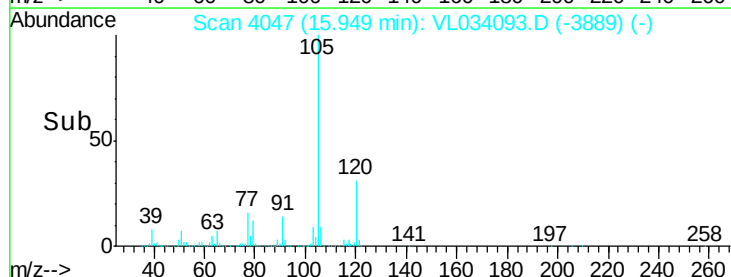
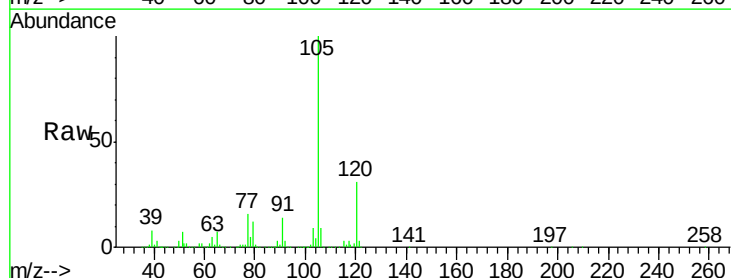
Ion Ratio Lower Upper

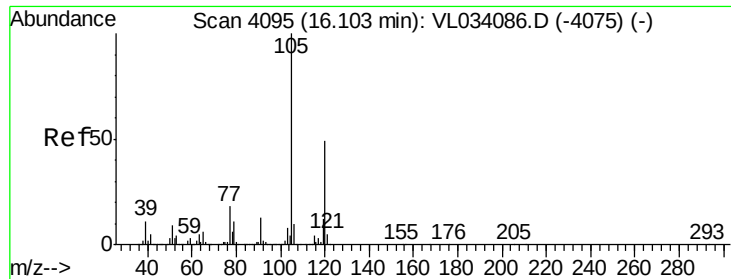
105 100

120 29.9 24.2 36.2

91 13.5 10.5 15.7

77 14.8 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 8.061 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion:105 Resp: 2940857

Ion Ratio Lower Upper

105 100

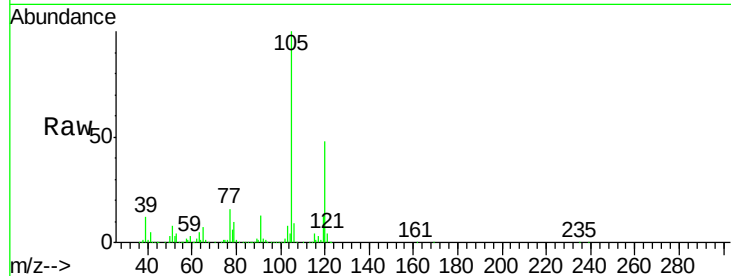
120 47.8 39.0 58.4

Manual Integrations

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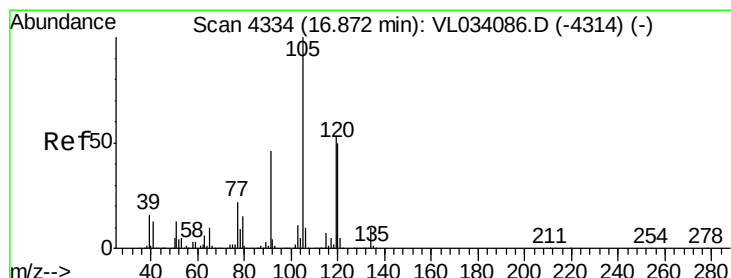
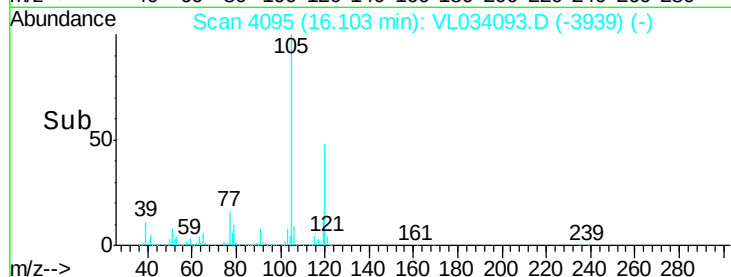
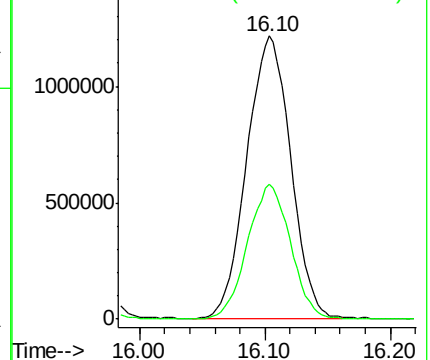
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.771 ppbv

RT: 16.88 min Scan# 4335

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Tgt Ion:105 Resp: 2949326

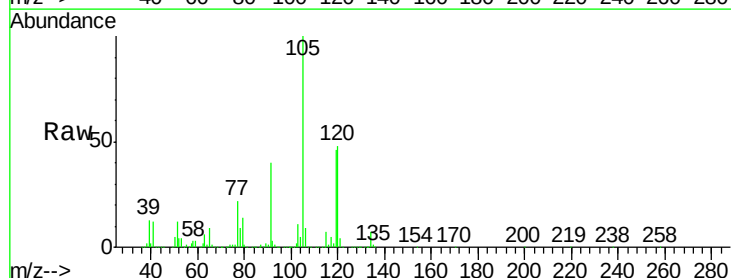
Ion Ratio Lower Upper

105 100

120 47.5 40.2 60.4

91 39.4 38.1 57.1

77 21.5 17.8 26.8

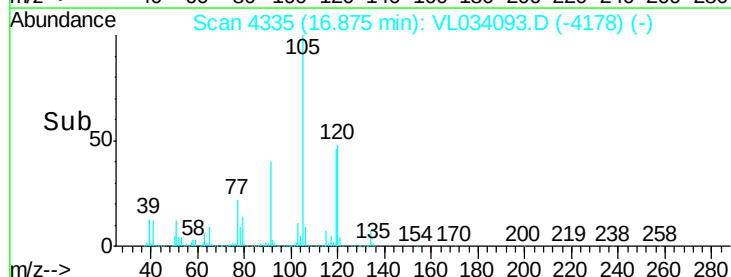
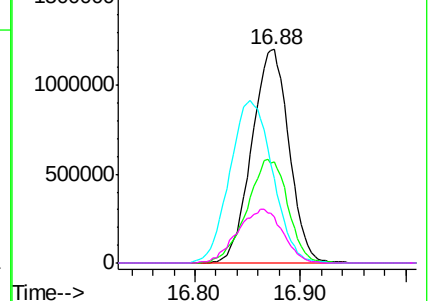


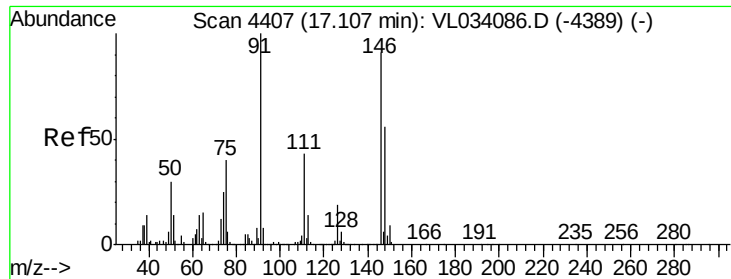
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.039 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. 0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

Instrument :

MSVOA_L

ClientSampleId :

ICVVL080519

Tot Ion:146 Resp: 1708881

Ion Ratio Lower Upper

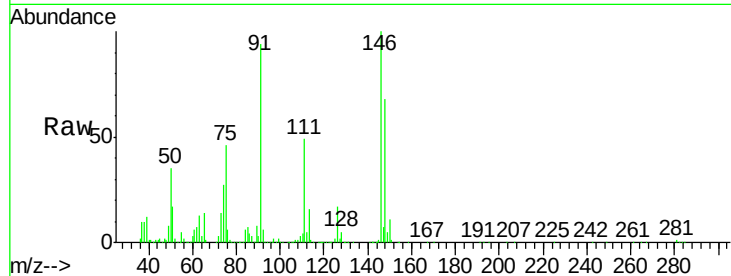
146 100

111 47.8 23.8 71.5

148 65.4 32.4 97.2

Manual Integrations
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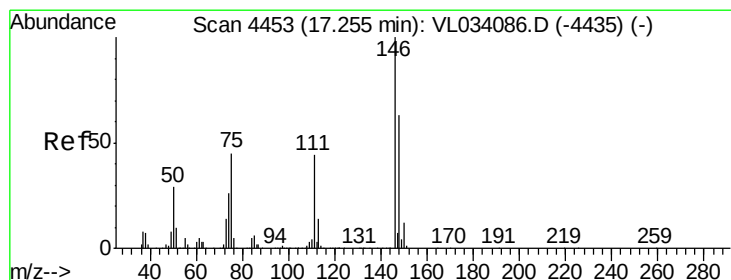
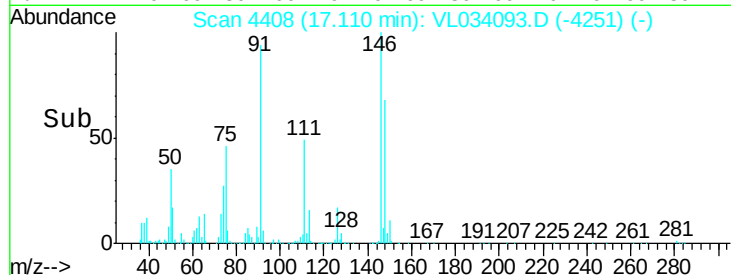
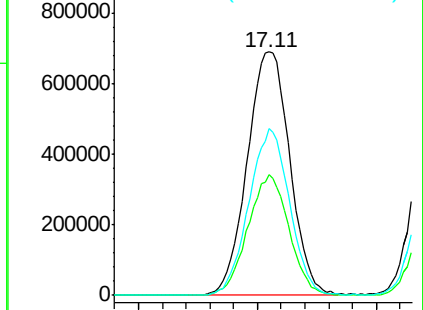
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.121 ppbv

RT: 17.25 min Scan# 4452

Delta R.T. -0.00 min

Lab File: VL034093.D

Acq: 5 Aug 2019 18:07

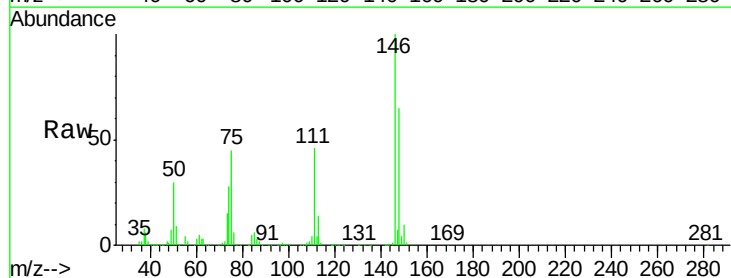
Tgt Ion:146 Resp: 1763804

Ion Ratio Lower Upper

146 100

111 45.7 23.2 69.5

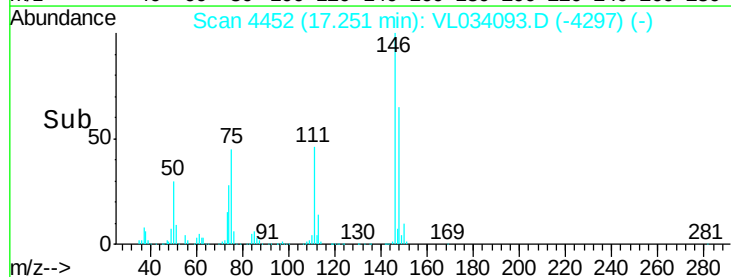
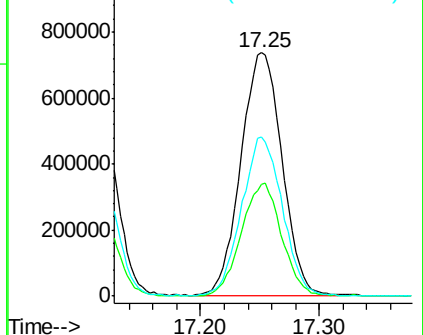
148 65.1 32.1 96.5

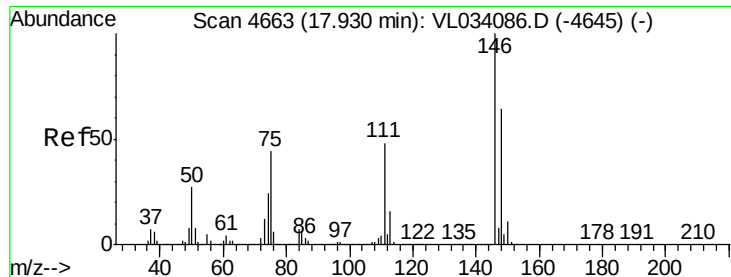


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





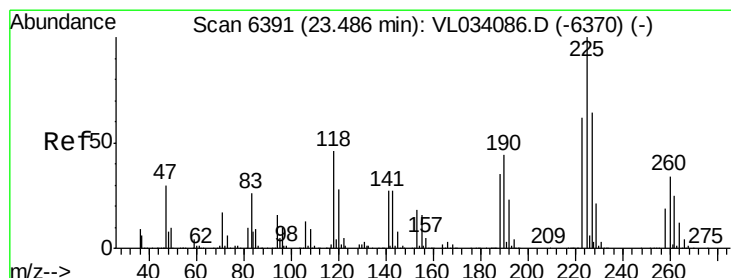
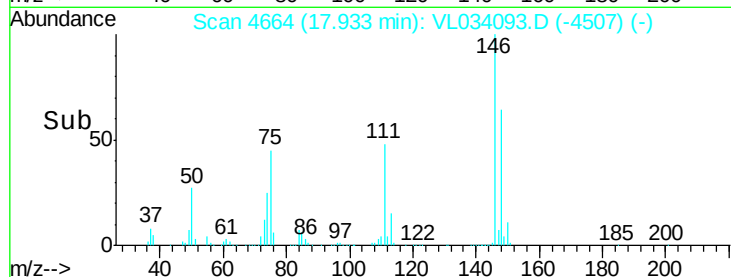
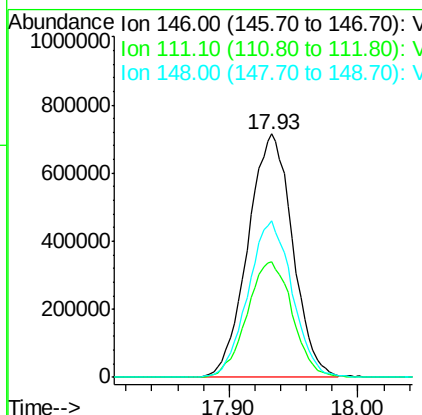
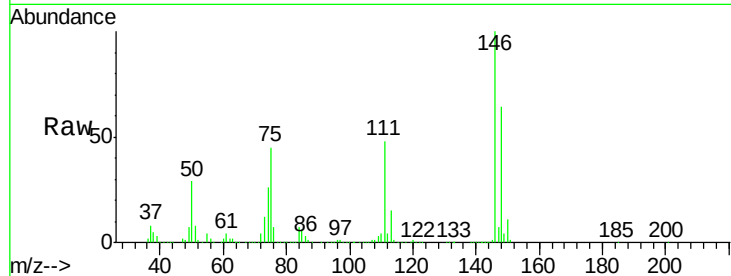
#77
 1,2-Dichlorobenzene
 Concen: 8.201 ppbv
 RT: 17.93 min Scan# 4664
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.0	72.0
148	63.9	31.9	95.7

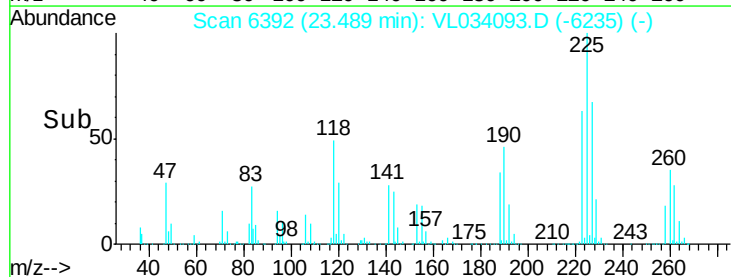
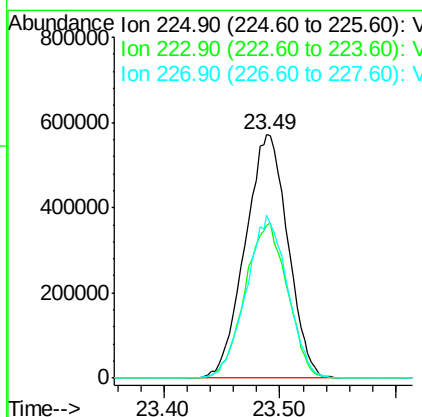
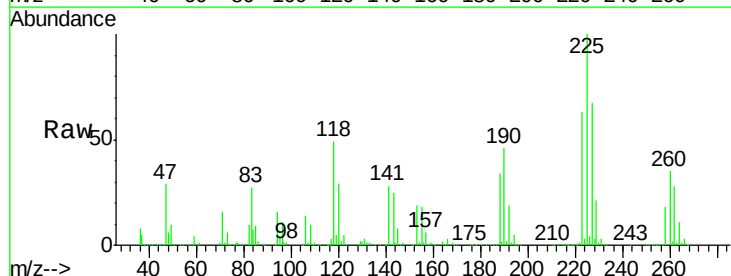
Manual Integrations
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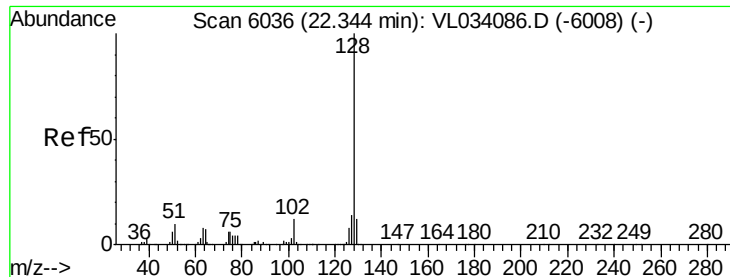
MMDadoda
 8/8/2019 12:41:38 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.810 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.8	76.2
227	64.3	52.2	78.2





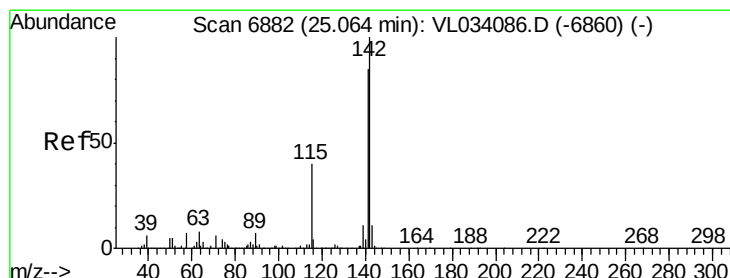
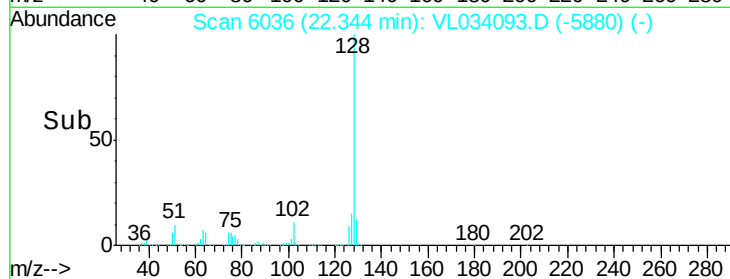
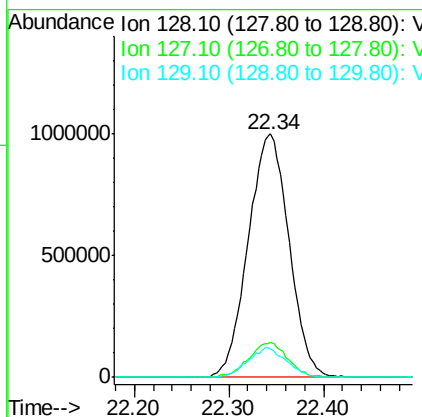
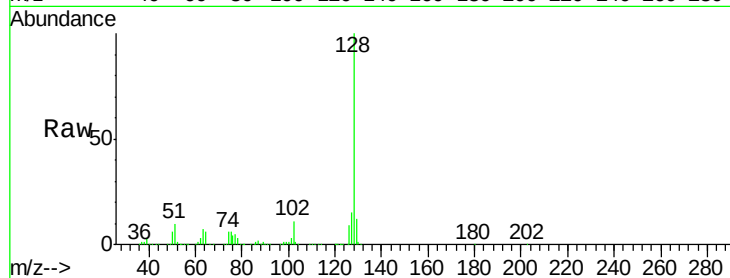
#79
Naphthalene
Concen: 7.593 ppbv
RT: 22.34 min Scan# 6036
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Instrument :
MSVOA_L
ClientSampleId :
ICVVL080519

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.6	11.0	16.6
129	11.7	9.2	13.8

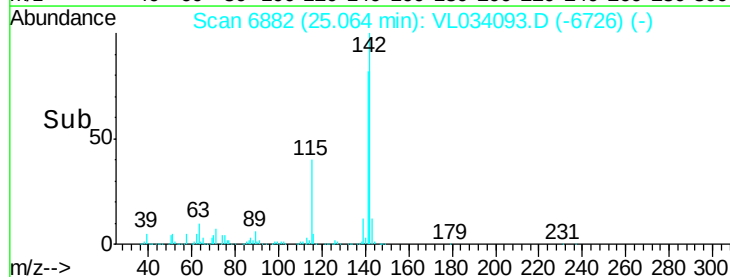
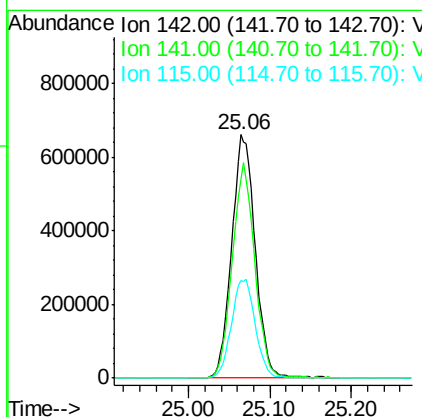
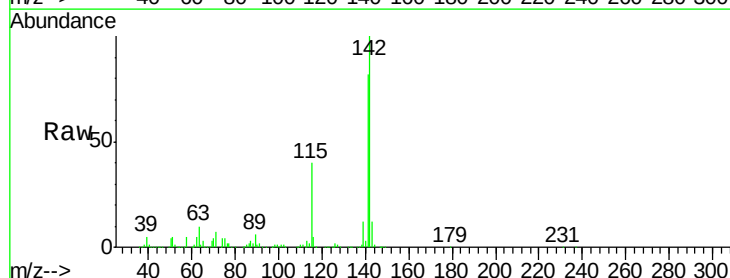
Manual Integrations
APPROVED

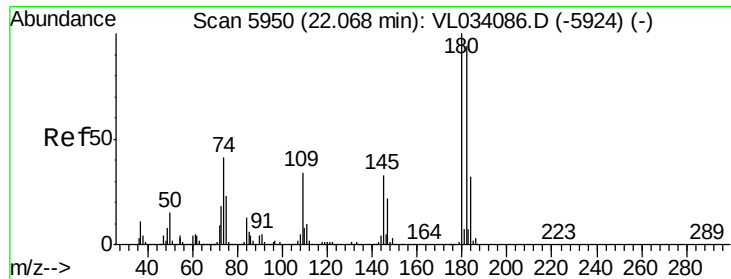
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8/8/2019 12:41:38 PM



#80
Naphthalene, 2-methyl-
Concen: 10.851 ppbv
RT: 25.06 min Scan# 6882
Delta R.T. 0.00 min
Lab File: VL034093.D
Acq: 5 Aug 2019 18:07

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.7	66.1	99.1
115	41.4	30.8	46.2





#81
 1,2,4-Trichlorobenzene
 Concen: 7.783 ppbv
 RT: 22.07 min Scan# 5950
 Delta R.T. 0.00 min
 Lab File: VL034093.D
 Acq: 5 Aug 2019 18:07

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL080519

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.7	115.1
184	31.1	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 8/8/2019 12:41:38 PM

