

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034177.D
 Acq On : 17 Sep 2019 8:45
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:15 AM

Quant Time: Sep 17 09:25:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 17 2019
 QLast Update : Tue Sep 17 08:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1254396	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2181646	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2340734	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1953991	9.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1466602	7.915	ppbv	97
3) Chlorodifluoromethane	2.97	51	1347251	9.160	ppbv	100
4) Chloromethane	3.13	50	768456	8.891	ppbv	98
5) Vinyl Chloride	3.25	62	676482	8.564	ppbv	94
6) Bromomethane	3.47	94	342740	9.300	ppbv	92
7) Chloroethane	3.56	64	241276	8.739	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	1404648	8.589	ppbv	99
9) Propene	3.00	41	655108	9.028	ppbv	98
10) Heptane	8.18	43	1696008	8.968	ppbv	100
11) Trichlorofluoromethane	3.95	101	1451200	8.604	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	970182	8.790	ppbv	100
13) Ethanol	3.60	45	163391	7.804	ppbv	96
14) Bromoethene	3.74	108	424689	9.411	ppbv	97
15) Acetone	3.85	43	1359432	8.086	ppbv	100
16) 1,3-Butadiene	3.32	39	665386	9.069	ppbv	99
17) tert-Butyl alcohol	4.30	59	1093459	10.265	ppbv	100
18) 1,1-Dichloroethene	4.30	96	443108	9.204	ppbv	90
19) Isopropyl Alcohol	3.97	45	1036251	10.023	ppbv	99
20) Methylene Chloride	4.36	84	402649	8.307	ppbv	96
21) Allyl Chloride	4.42	41	877350	9.239	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	443516	9.208	ppbv	95
23) Vinyl Acetate	5.10	43	2314531	9.342	ppbv	99
24) 1,1-Dichloroethane	5.04	63	1450905	8.698	ppbv	99
25) Ethyl Acetate	5.71	43	2643610	8.315	ppbv	100
26) Hexane	5.72	57	1127933	8.529	ppbv	99
27) Carbon Disulfide	4.56	76	1193405	9.785	ppbv	99
28) Methyl tert-Butyl Ether	5.06	73	1765832	8.990	ppbv	100
29) Chloroform	5.79	83	1676634	8.872	ppbv	98
30) Cyclohexane	7.18	84	870524	9.117	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1230988	9.131	ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	1575269	8.643	ppbv	100
34) 2-Butanone	5.27	43	1913639	8.591	ppbv	99
35) Carbon Tetrachloride	7.07	117	1550430	8.554	ppbv	99
36) Benzene	6.94	78	2120171	8.799	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1496854	8.734	ppbv	100
38) Trichloroethene	7.89	130	699389	8.124	ppbv	98
39) 1,2-Dichloropropane	7.67	63	945506	8.734	ppbv	95
40) 1,4-Dioxane	7.88	88	329850	9.415	ppbv #	86
41) Tetrahydrofuran	6.09	42	1144180	9.120	ppbv	100
42) Bromodichloromethane	7.85	83	1864087	9.063	ppbv	99
43) Methyl Methacrylate	8.07	69	957605	9.621	ppbv	97

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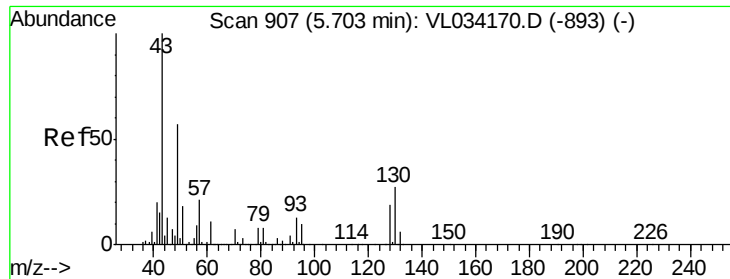
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3892680	8.392	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1176052	9.993	ppbv	99
46) cis-1,3-Dichloropropene	8.77	75	1363376	9.630	ppbv	98
47) 1,1,2-Trichloroethane	9.55	97	853914	8.784	ppbv	97
48) Dibromochloromethane	10.38	129	1418587	9.207	ppbv	100
49) Bromoform	13.13	173	1178784	9.454	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2811778	8.673	ppbv	99
51) 2-Hexanone	10.20	43	2443017	8.979	ppbv #	99
52) Tetrachloroethene	11.30	164	671107	8.430	ppbv	97
53) Toluene	9.88	91	2355514	8.945	ppbv	99
54) 1,2-Dibromoethane	10.69	107	1320172	9.132	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	916985	8.784	ppbv #	56
57) Chlorobenzene	12.23	112	1700657	8.345	ppbv	98
58) Ethyl Benzene	12.79	91	3227887	8.546	ppbv	99
59) m/p-Xylene	13.08	91	5221536m	16.691	ppbv	
60) o-Xylene	13.78	91	2618492	8.371	ppbv	99
61) Styrene	13.61	104	1976229	8.820	ppbv	100
62) Isopropylbenzene	14.75	105	3402469	8.403	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1929808m	7.524	ppbv	
64) n-propylbenzene	15.65	120	890078	8.688	ppbv	96
65) tert-Butylbenzene	16.84	119	2900253	8.197	ppbv	100
66) Benzyl Chloride	17.09	91	1482162	11.841	ppbv	99
67) sec-Butylbenzene	17.38	105	4194804	8.291	ppbv	99
69) p-Isopropyltoluene	17.74	119	3442932	8.404	ppbv	99
70) n-Butylbenzene	18.64	91	3968146	8.318	ppbv	100
71) 2-Chlorotoluene	15.54	91	2828616	8.550	ppbv	99
72) 4-Ethyltoluene	15.93	105	3017454	8.538	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2901015	8.497	ppbv	99
74) 1,2,4-Trimethylbenzene	16.85	105	2898527	7.995	ppbv	98
75) 1,3-Dichlorobenzene	17.09	146	1605181	8.253	ppbv	99
76) 1,4-Dichlorobenzene	17.24	146	1648004	8.273	ppbv	99
77) 1,2-Dichlorobenzene	17.92	146	1616331	8.210	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1253787	9.615	ppbv	99
79) Naphthalene	22.32	128	3033539	9.505	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1298987	8.752	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	1477413	8.357	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 49 Resp: 1254396

Ion Ratio Lower Upper

49 100

128 34.3 17.6 52.9

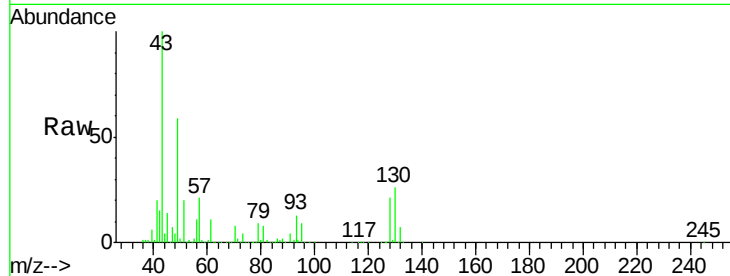
130 43.8 22.3 66.9

Manual Integrations

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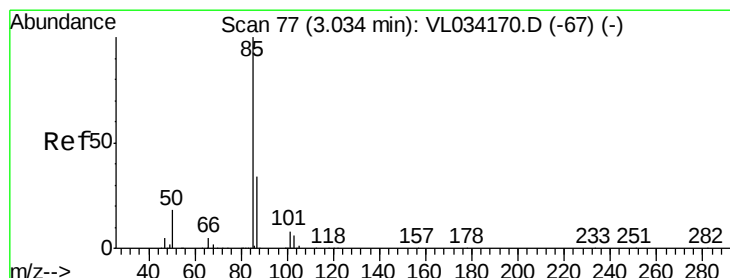
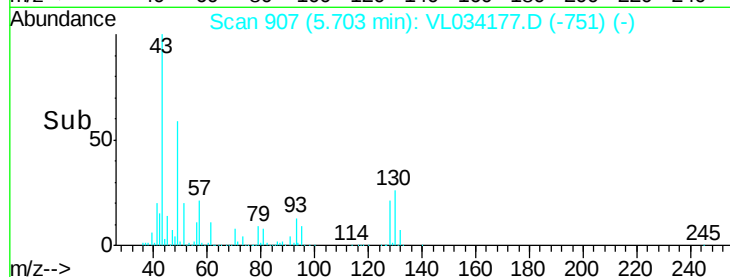
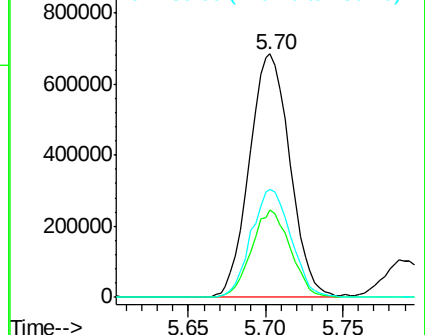
9/20/2019 12:44:15 AM



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



#2

Dichlorodifluoromethane

Concen: 7.915 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.00 min

Lab File: VL034177.D

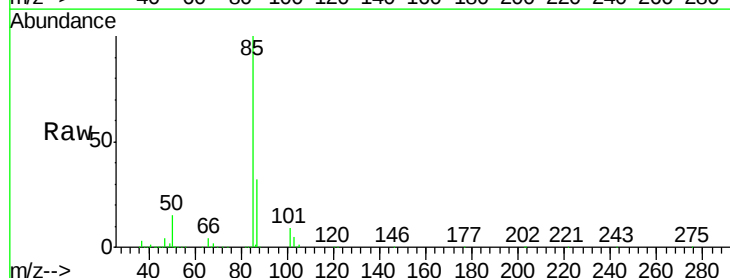
Acq: 17 Sep 2019 8:45

Tgt Ion: 85 Resp: 1466602

Ion Ratio Lower Upper

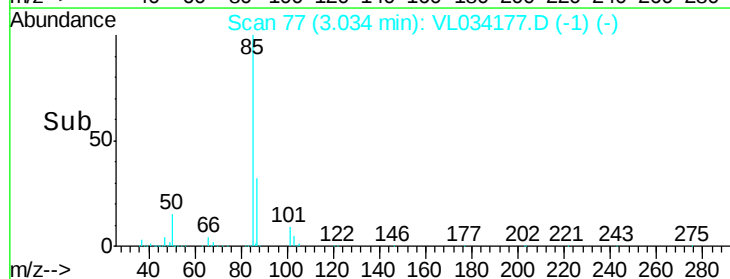
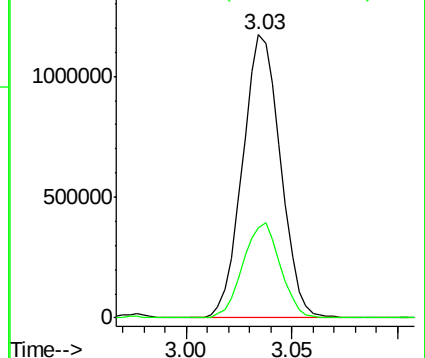
85 100

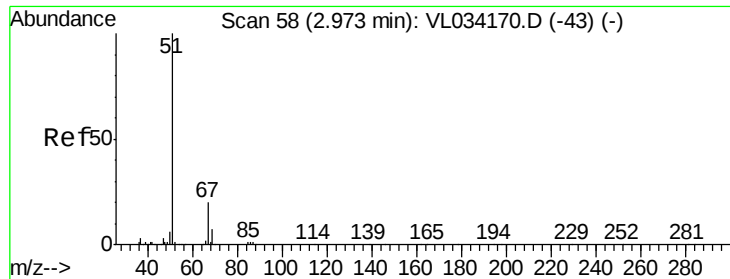
87 32.0 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.160 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 51 Resp: 1347251

Ion Ratio Lower Upper

51 100

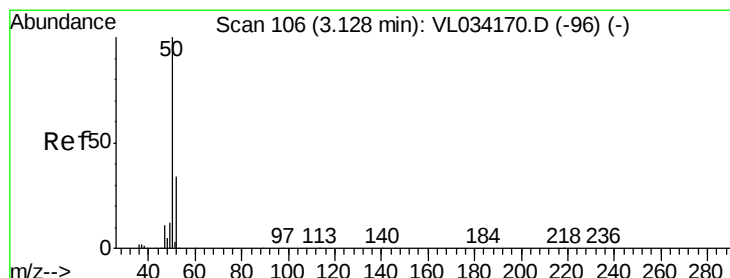
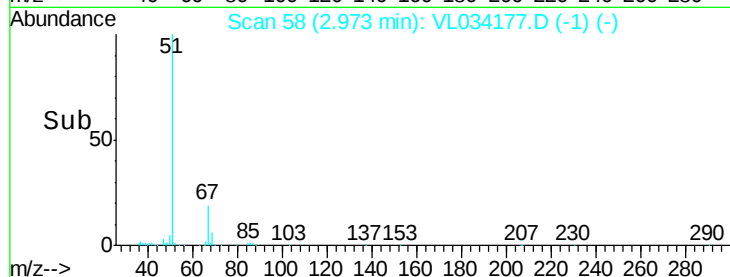
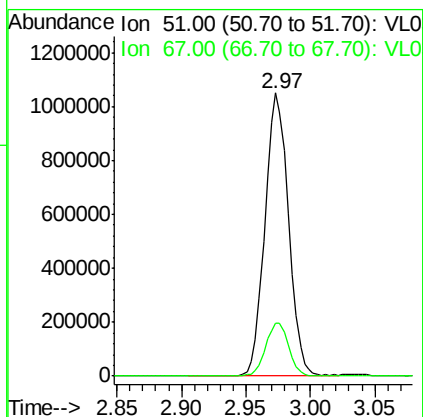
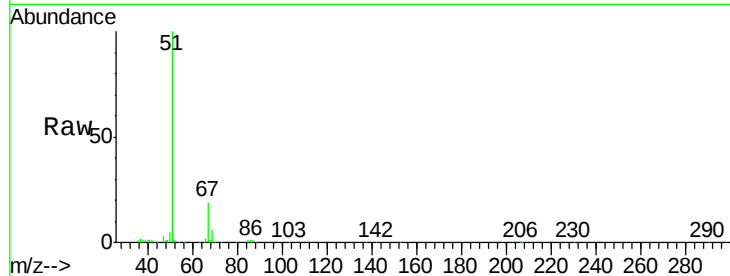
67 18.5 14.8 22.2

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#4

Chloromethane

Concen: 8.891 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL034177.D

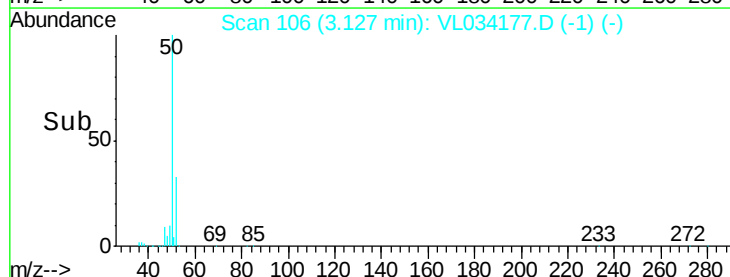
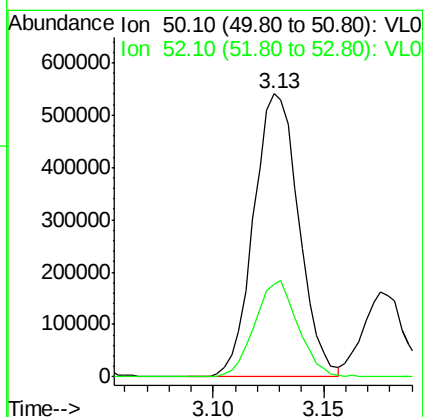
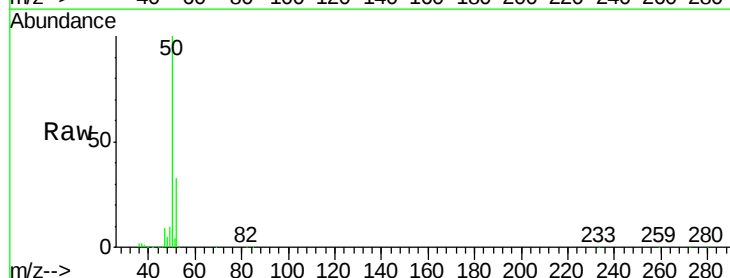
Acq: 17 Sep 2019 8:45

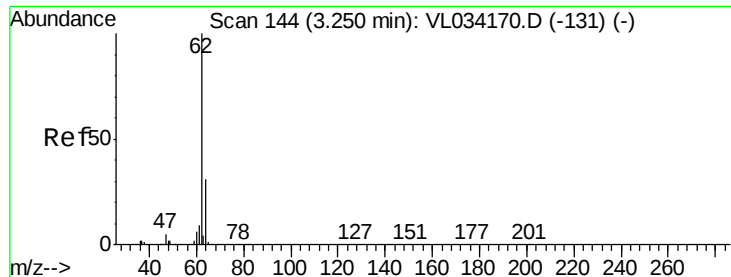
Tgt Ion: 50 Resp: 768456

Ion Ratio Lower Upper

50 100

52 32.5 27.1 40.7





#5

Vinyl Chloride

Concen: 8.564 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampled :

ICVVL091719

Tot Ion: 62 Resp: 676482

Ion Ratio Lower Upper

62 100

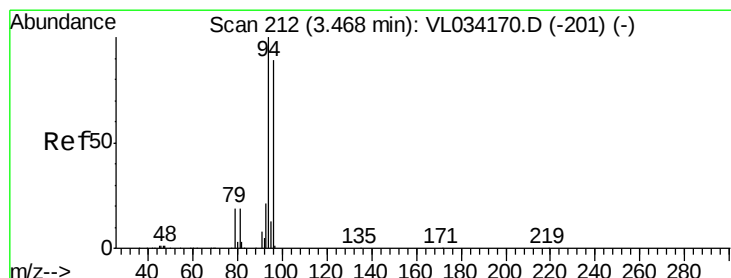
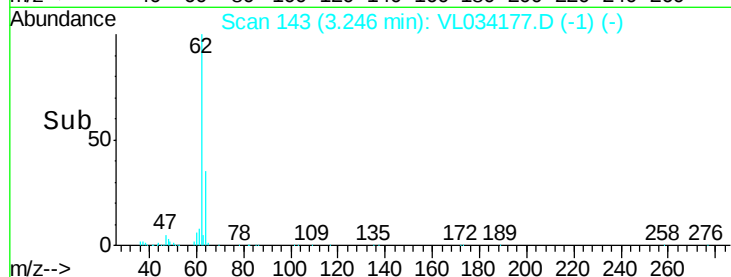
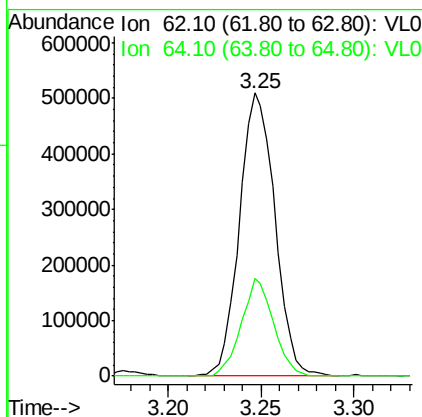
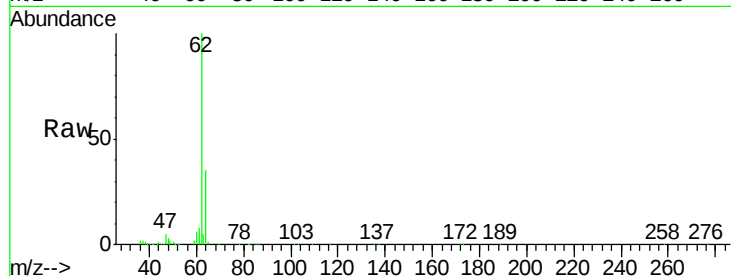
64 34.7 25.2 37.8

Manual Integrations

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#6

Bromomethane

Concen: 9.300 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL034177.D

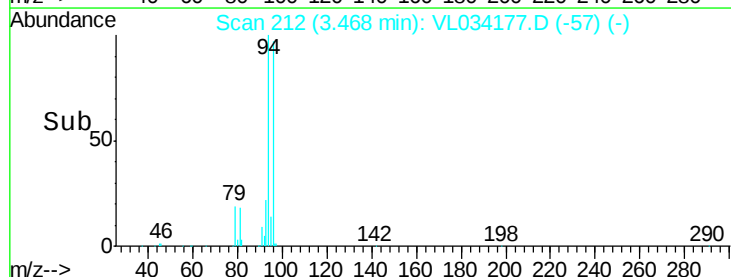
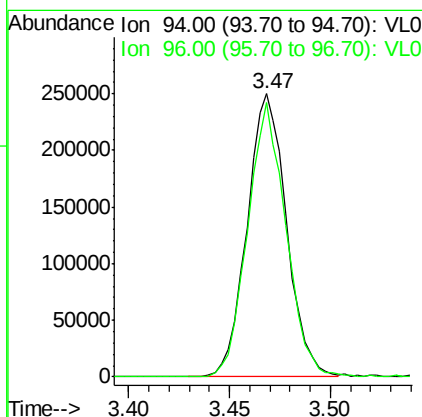
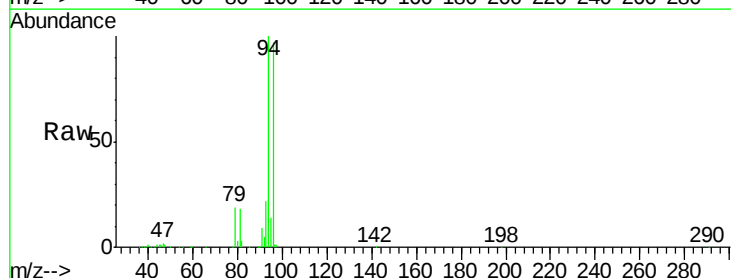
Acq: 17 Sep 2019 8:45

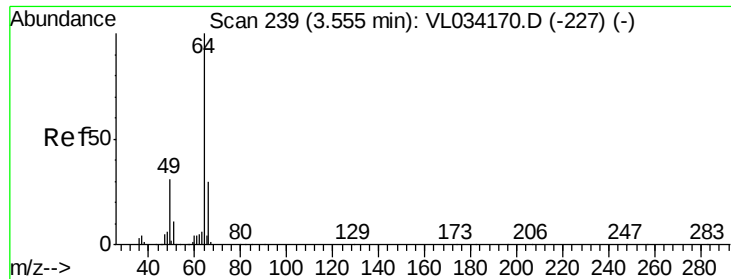
Tgt Ion: 94 Resp: 342740

Ion Ratio Lower Upper

94 100

96 97.0 71.3 106.9





#7

Chloroethane

Concen: 8.739 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 64 Resp: 241276

Ion Ratio Lower Upper

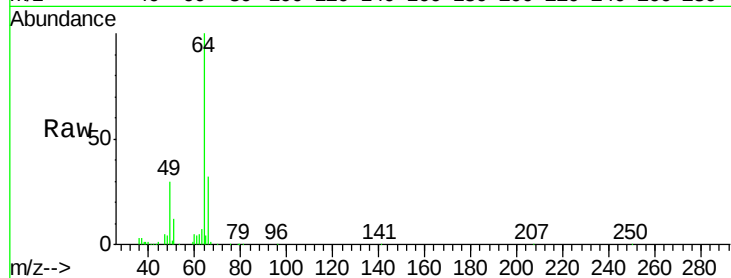
64 100

66 31.9 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

3.56

200000

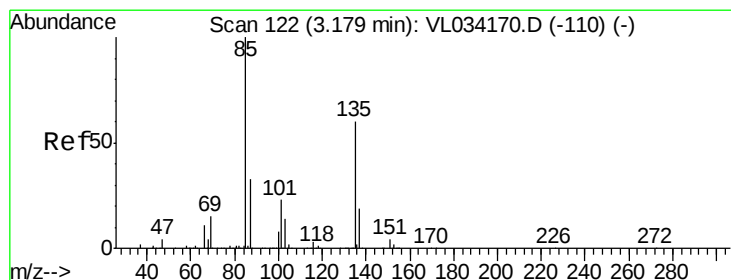
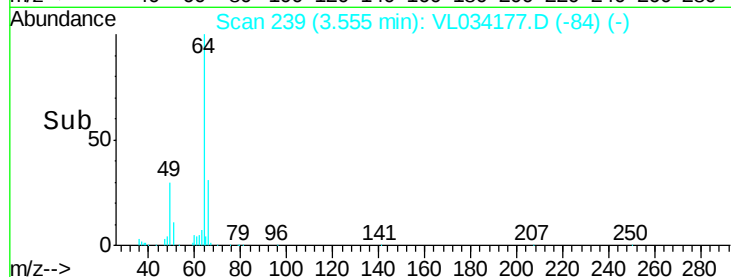
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.589 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL034177.D

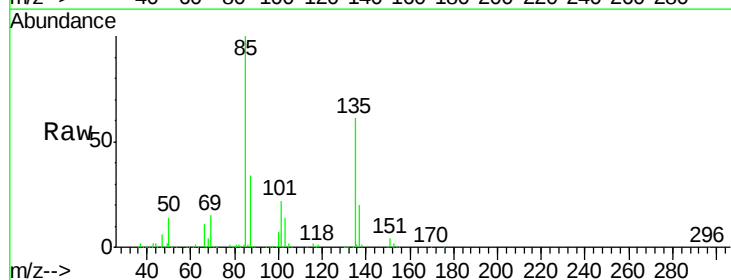
Acq: 17 Sep 2019 8:45

Tgt Ion: 85 Resp: 1404648

Ion Ratio Lower Upper

85 100

135 58.2 47.3 70.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.18

1200000

1000000

800000

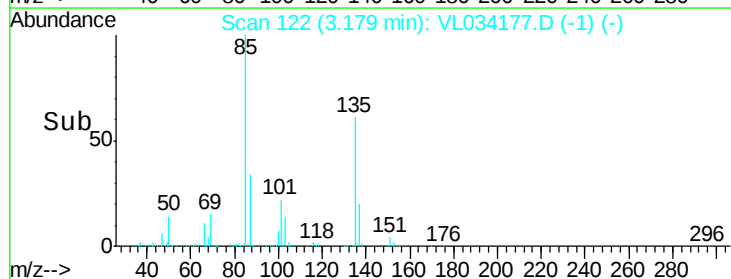
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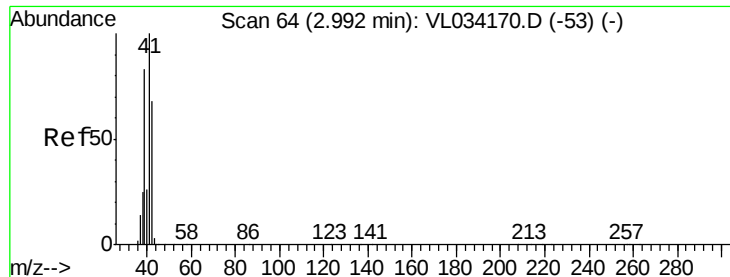
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200000

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Time-->





#9

Propene

Concen: 9.028 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 41 Resp: 655108

Ion Ratio Lower Upper

41 100

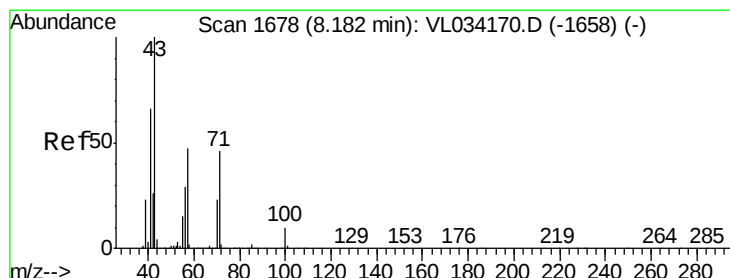
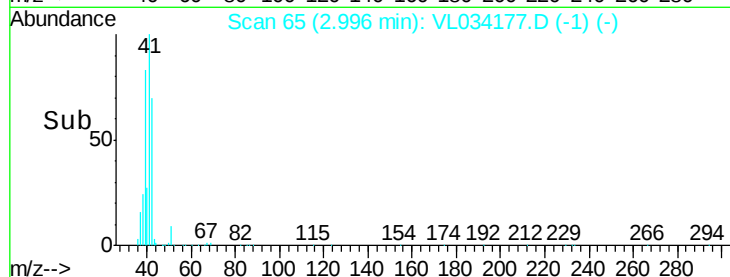
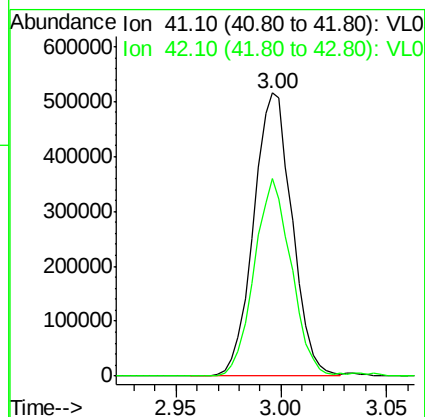
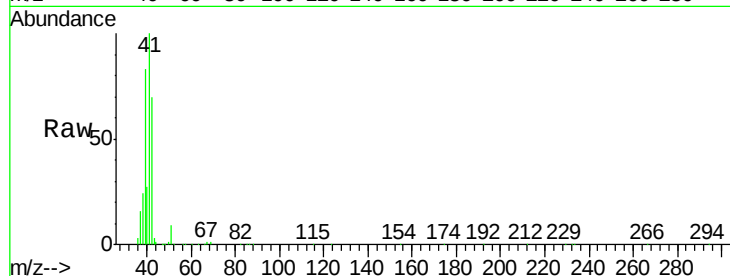
42 68.1 55.8 83.6

Manual Integrations

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#10

Heptane

Concen: 8.968 ppbv

RT: 8.18 min Scan# 1678

Delta R.T. -0.00 min

Lab File: VL034177.D

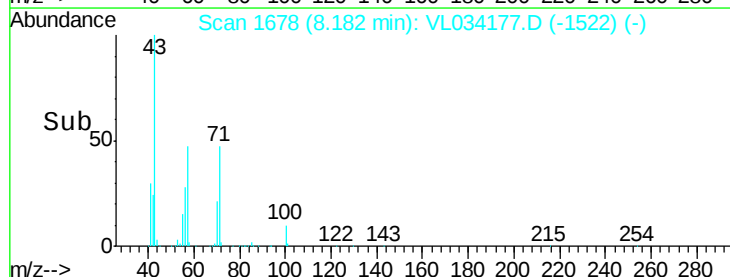
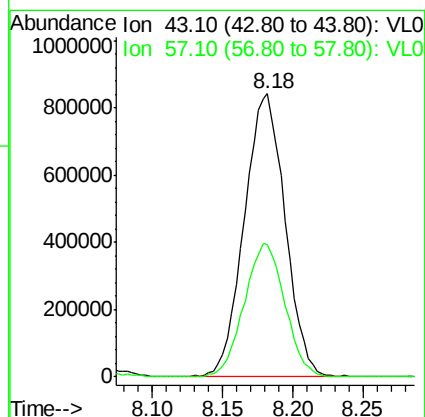
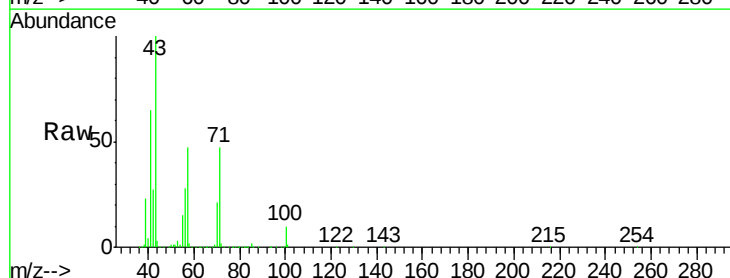
Acq: 17 Sep 2019 8:45

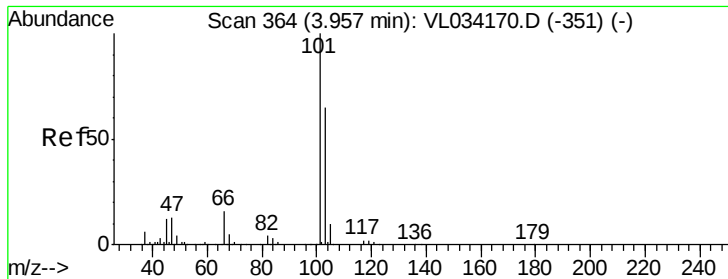
Tgt Ion: 43 Resp: 1696008

Ion Ratio Lower Upper

43 100

57 47.1 37.5 56.3





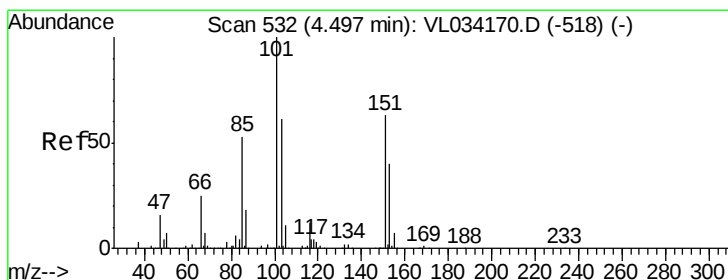
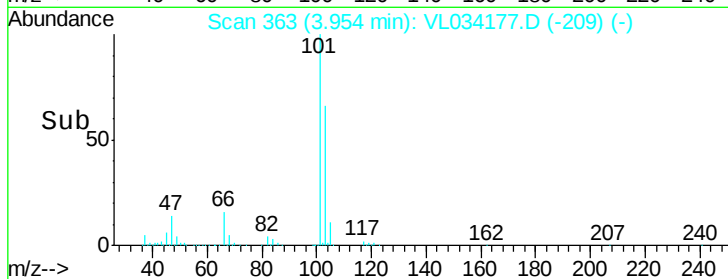
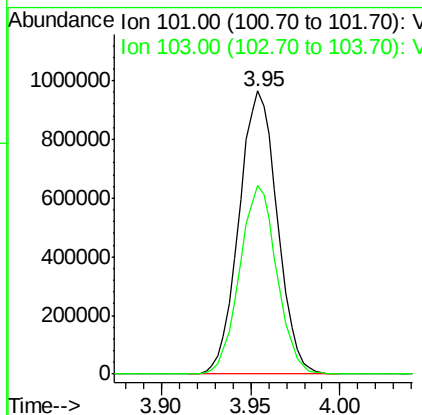
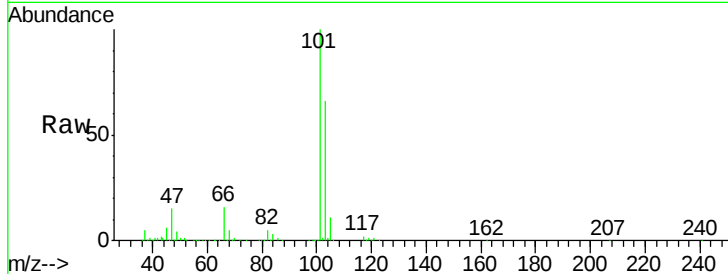
#11
 Trichlorofluoromethane
 Concen: 8.604 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion:101 Resp: 1451200
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.1 78.1

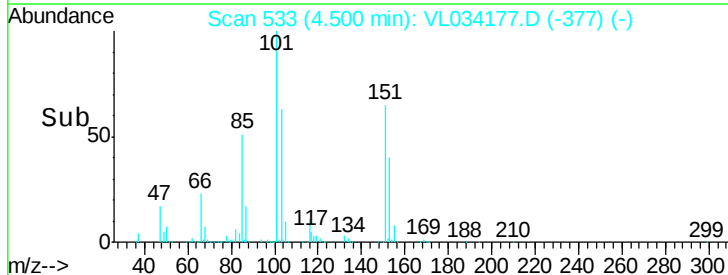
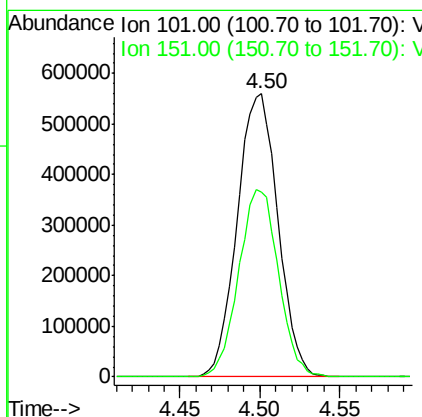
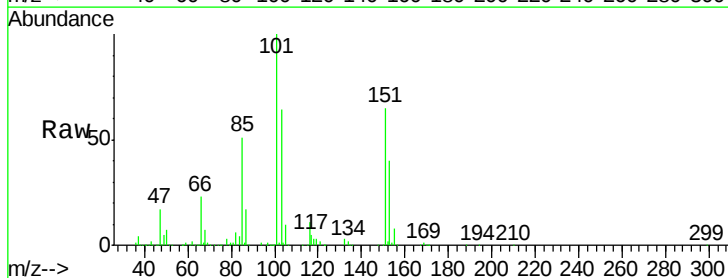
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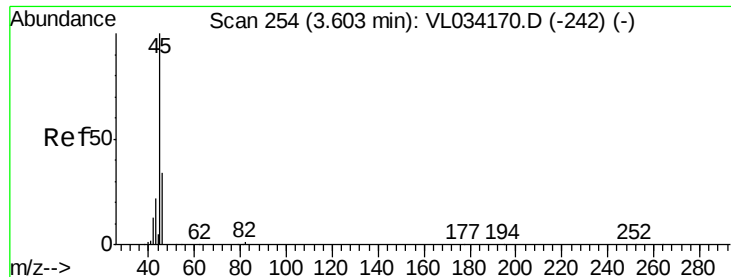
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.790 ppbv
 RT: 4.50 min Scan# 533
 Delta R.T. 0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion:101 Resp: 970182
 Ion Ratio Lower Upper
 101 100
 151 64.9 51.8 77.8





#13

Ethanol

Concen: 7.804 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tot Ion: 45 Resp: 163391

Ion Ratio Lower Upper

45 100

46 36.5 15.5 61.9

Instrument :

MSVOA_L

ClientSampleId :

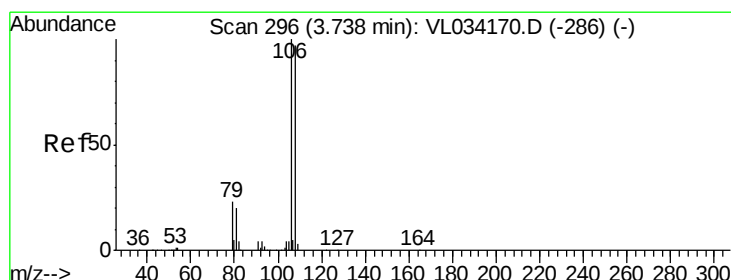
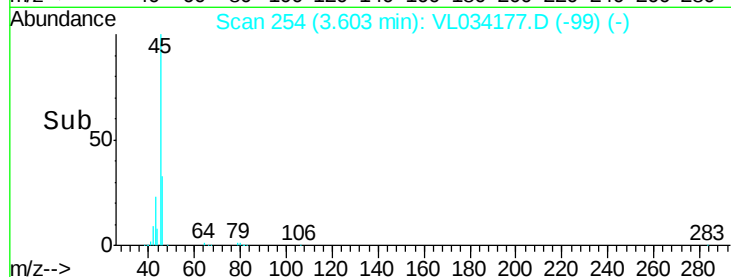
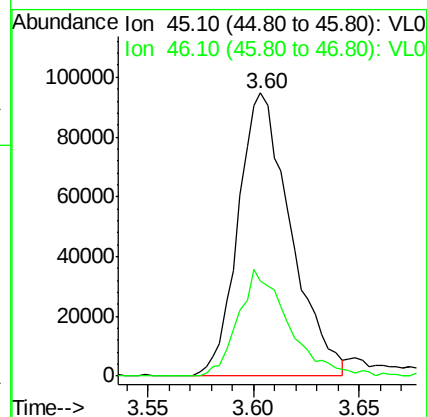
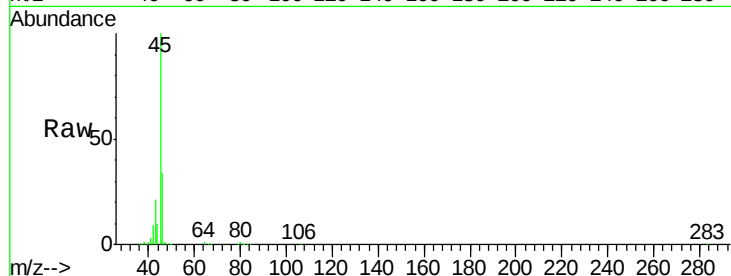
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#14

Bromoethene

Concen: 9.411 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

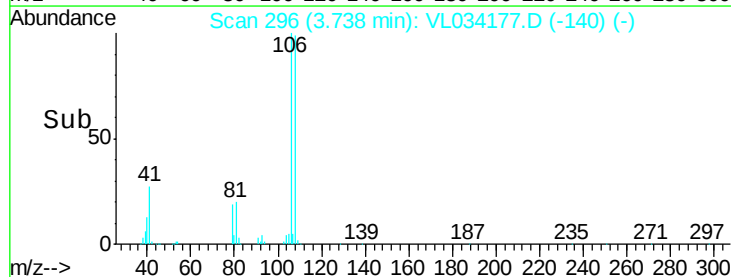
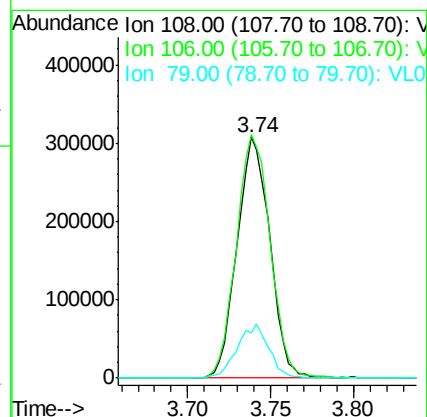
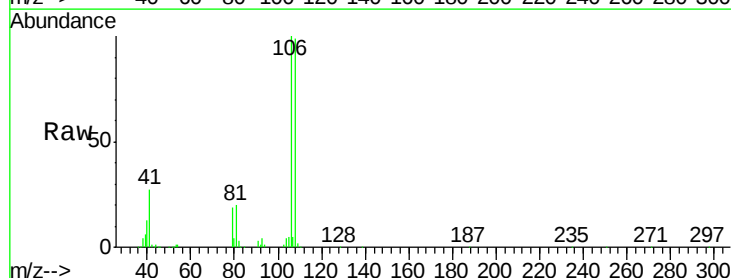
Tgt Ion: 108 Resp: 424689

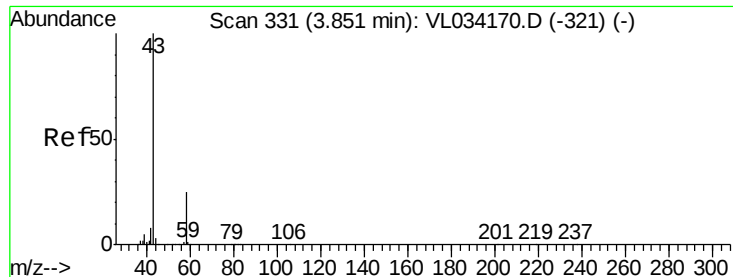
Ion Ratio Lower Upper

108 100

106 104.4 86.2 129.4

79 21.5 18.6 27.8





#15

Acetone

Concen: 8.086 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tot Ion: 43 Resp: 1359432

Ion Ratio Lower Upper

43 100

58 25.8 20.5 30.7

Instrument :

MSVOA_L

ClientSampleId :

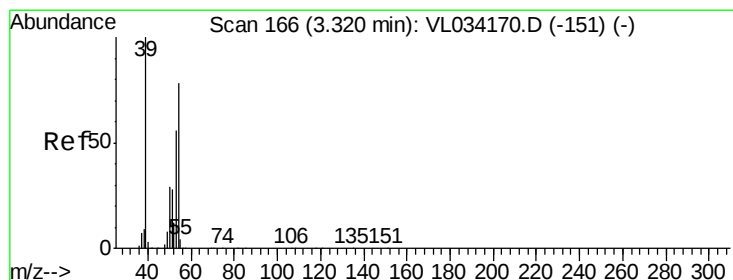
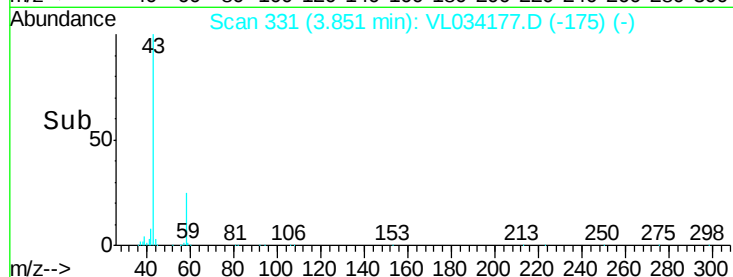
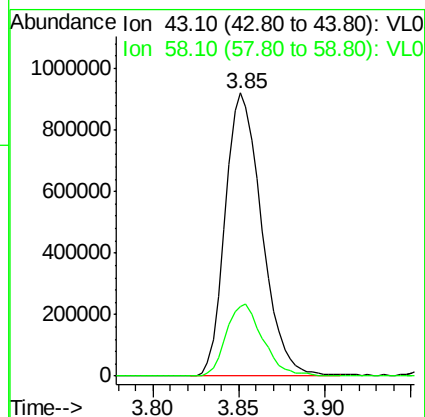
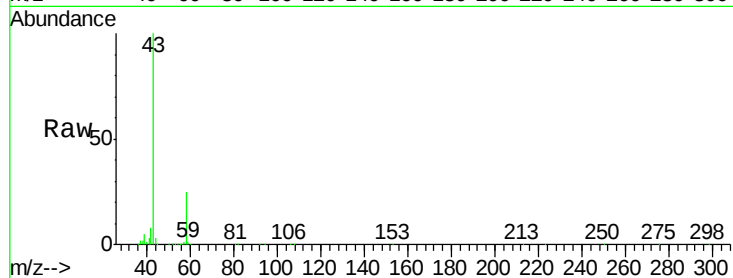
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#16

1,3-Butadiene

Concen: 9.069 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL034177.D

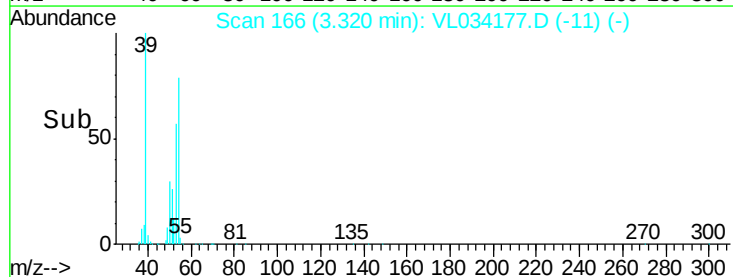
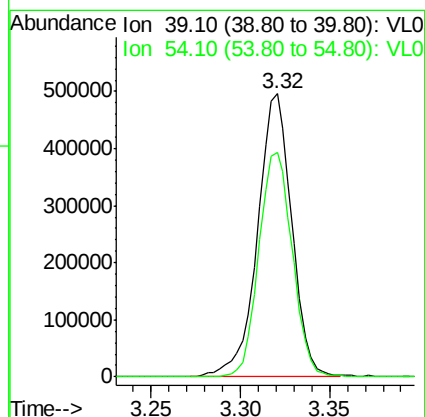
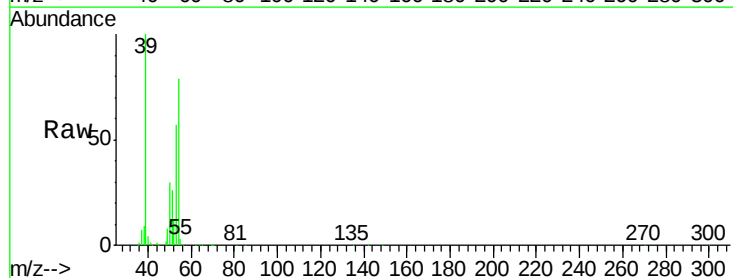
Acq: 17 Sep 2019 8:45

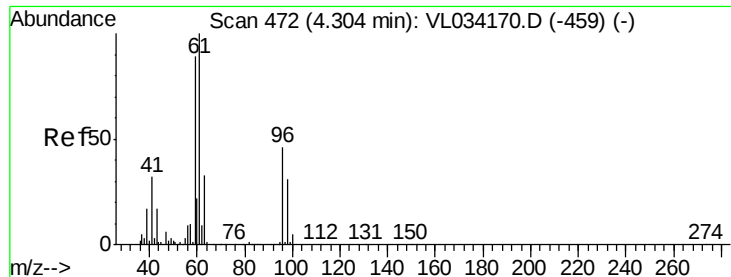
Tgt Ion: 39 Resp: 665386

Ion Ratio Lower Upper

39 100

54 78.3 63.4 95.0





#17

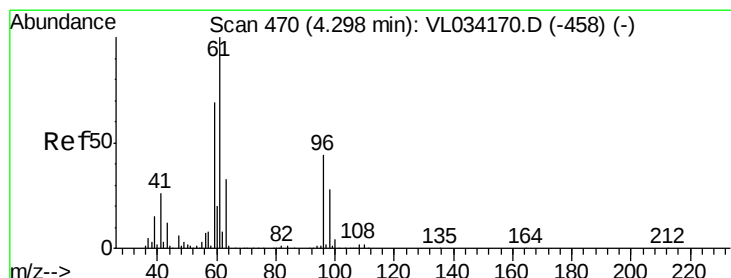
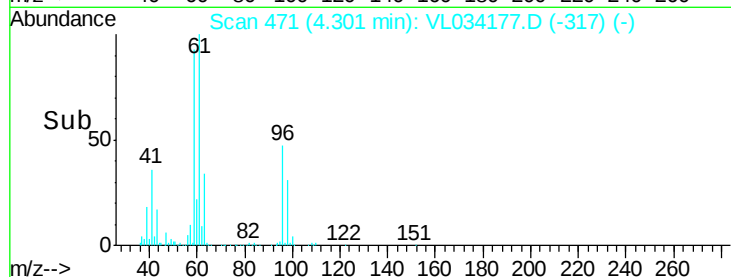
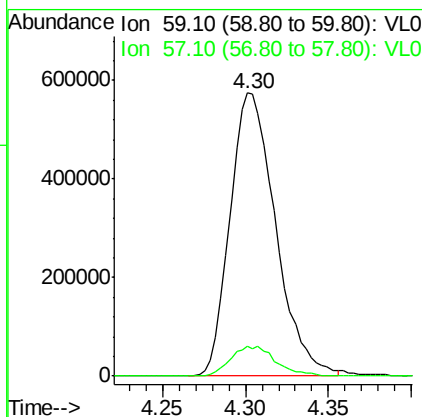
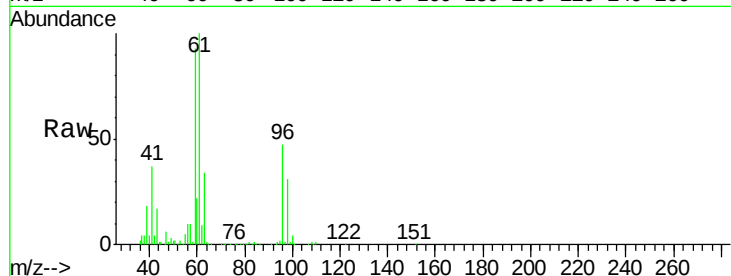
tert-Butyl alcohol
Concen: 10.265 ppbv
RT: 4.30 min Scan# 471
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion: 59 Resp: 1093459
Ion Ratio Lower Upper
59 100
57 10.8 8.7 13.1

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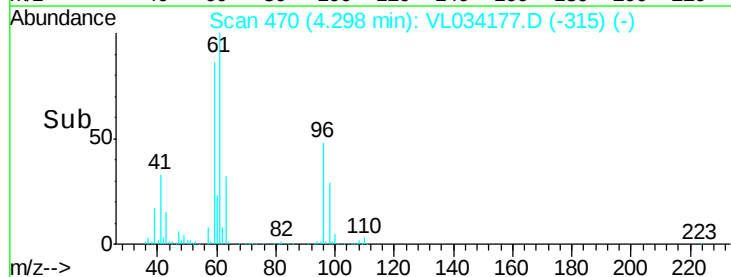
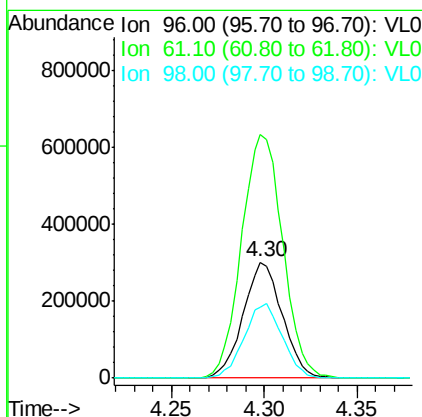
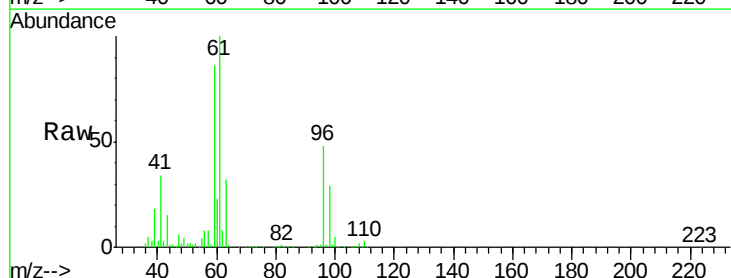
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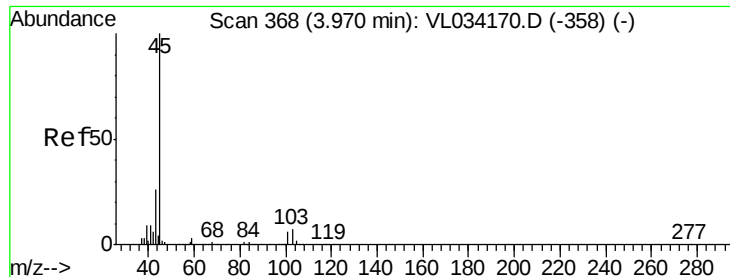


#18

1,1-Dichloroethene
Concen: 9.204 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion: 96 Resp: 443108
Ion Ratio Lower Upper
96 100
61 209.9 183.3 274.9
98 61.1 51.4 77.2





#19

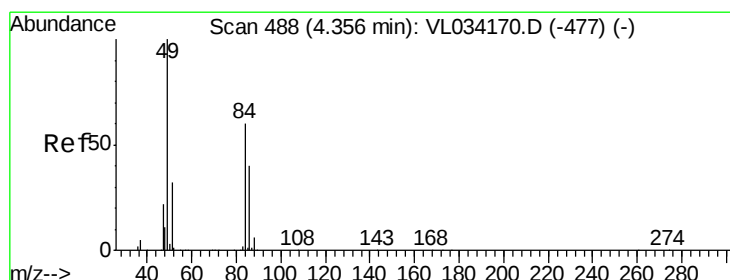
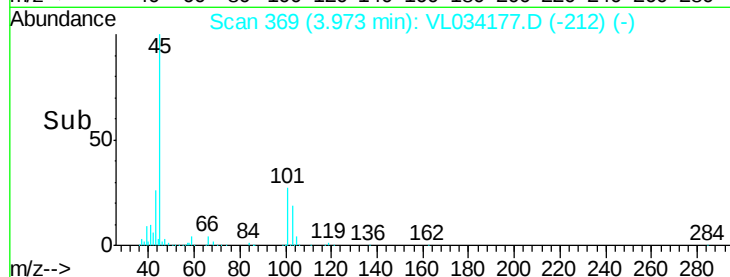
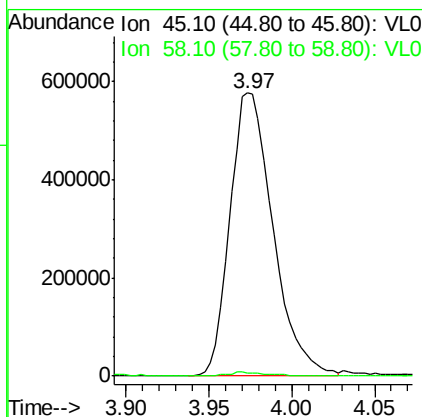
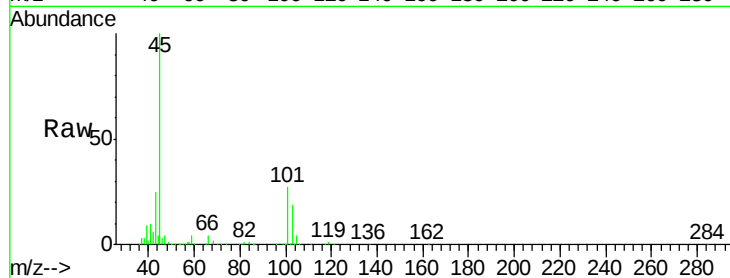
Isopropyl Alcohol
 Concen: 10.023 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion: 45 Resp: 1036251
 Ion Ratio Lower Upper
 45 100
 58 1.4 1.4 2.0

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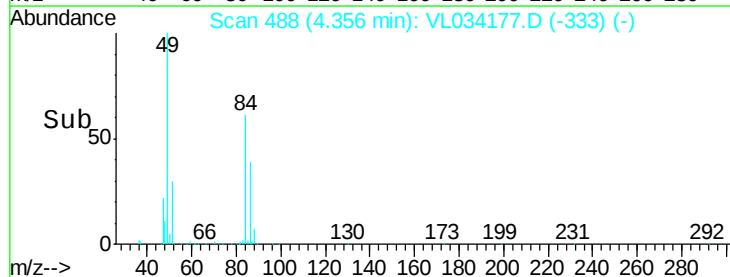
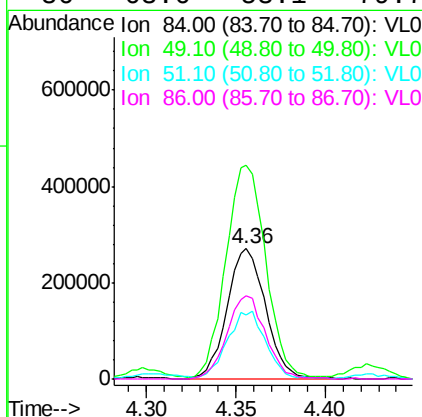
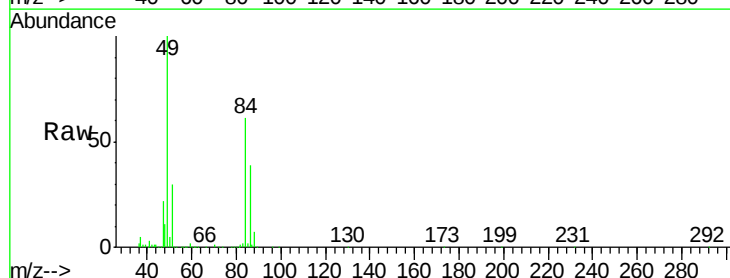
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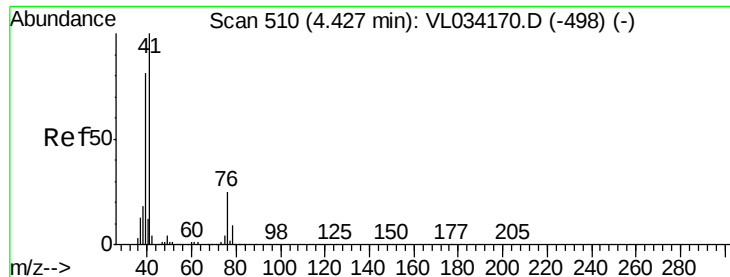


#20

Methylene Chloride
 Concen: 8.307 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion: 84 Resp: 402649
 Ion Ratio Lower Upper
 84 100
 49 163.8 133.8 200.8
 51 48.4 43.6 65.4
 86 63.6 53.1 79.7





#21

Allvl Chloride

Concen: 9.239 ppbv

RT: 4.42 min Scan# 509

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

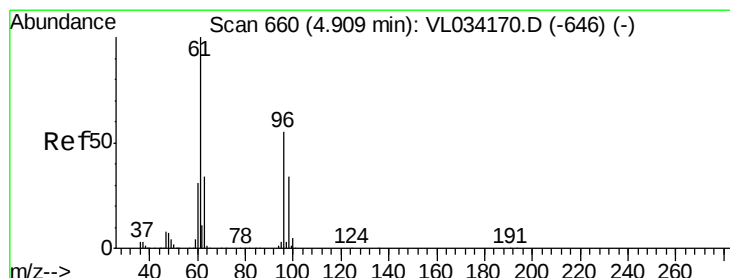
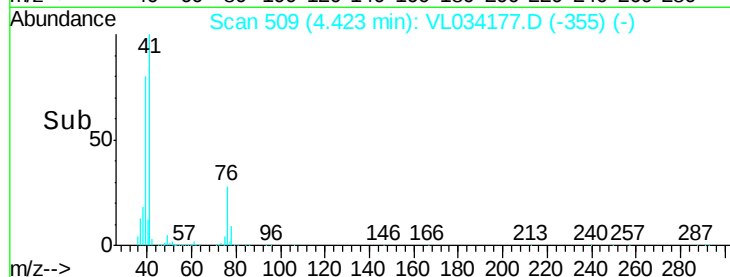
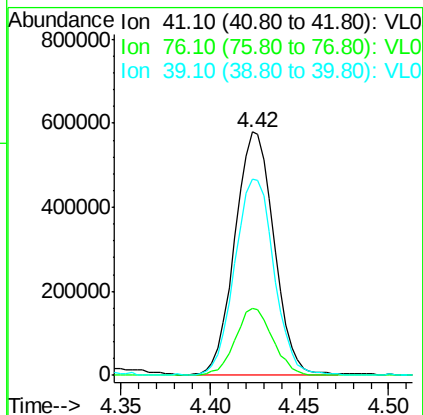
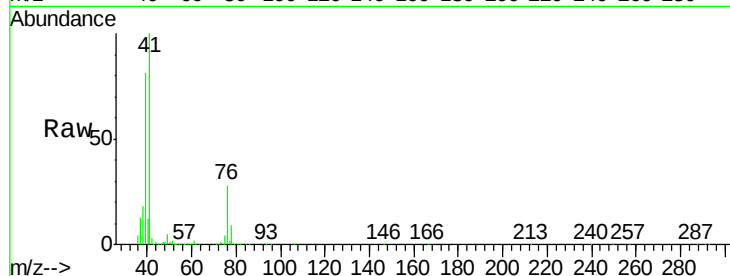
ClientSampleId :

ICVVL091719

Tot Ion:	41	Resp:	877350
Ion	Ratio	Lower	Upper
41	100		
76	26.7	21.8	32.6
39	82.1	64.8	97.2

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#22

trans-1,2-Dichloroethene

Concen: 9.208 ppbv

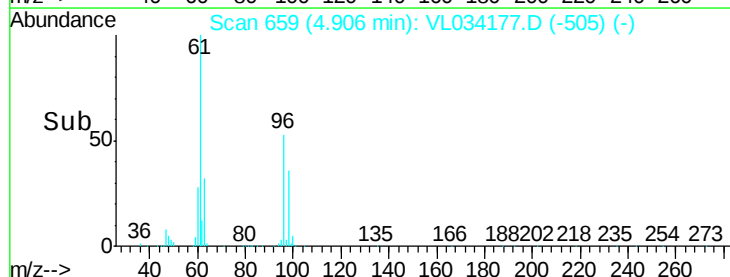
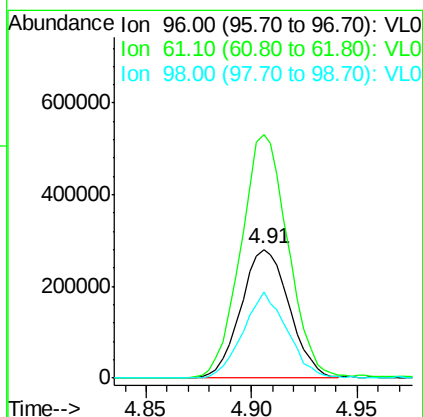
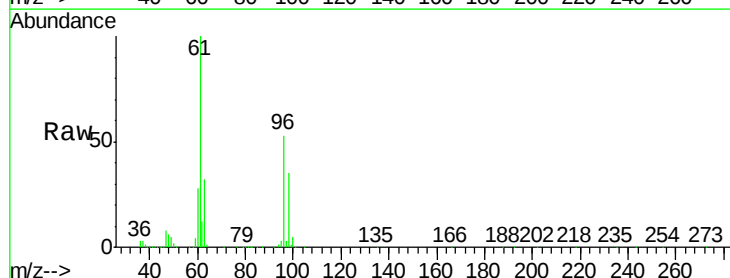
RT: 4.91 min Scan# 659

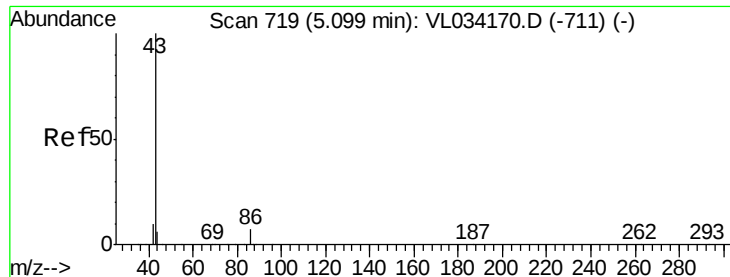
Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tgt Ion:	96	Resp:	443516
Ion	Ratio	Lower	Upper
96	100		
61	189.0	145.5	218.3
98	67.1	49.9	74.9





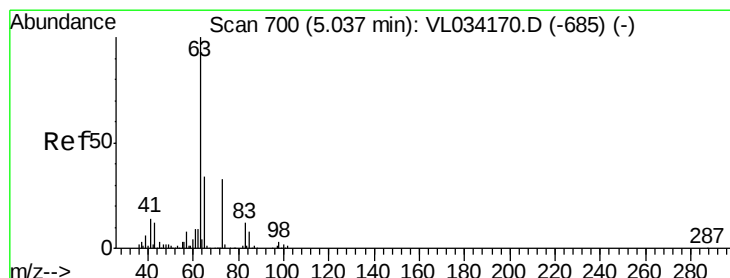
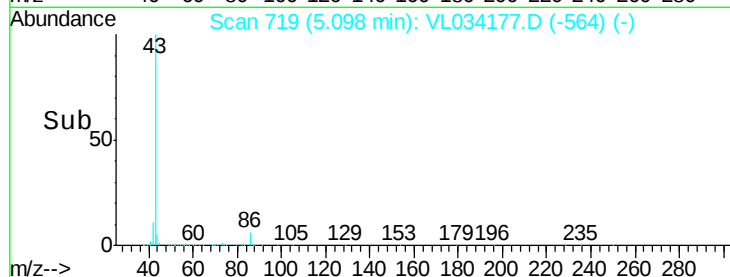
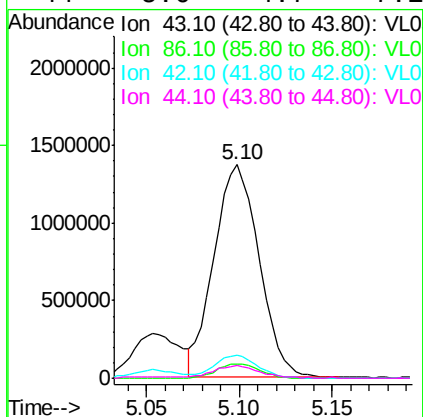
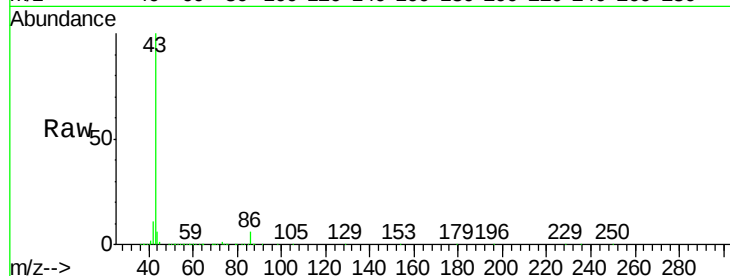
#23
 Vinyl Acetate
 Concen: 9.342 ppbv
 RT: 5.10 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	43	Resp	2314531
Ion	Ratio	Lower	Upper
43	100		
86	6.5	5.1	7.7
42	10.5	8.6	12.8
44	5.6	4.7	7.1

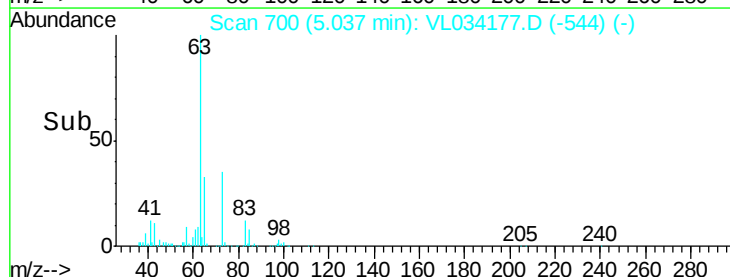
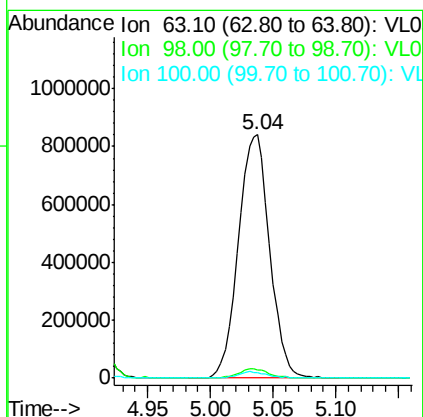
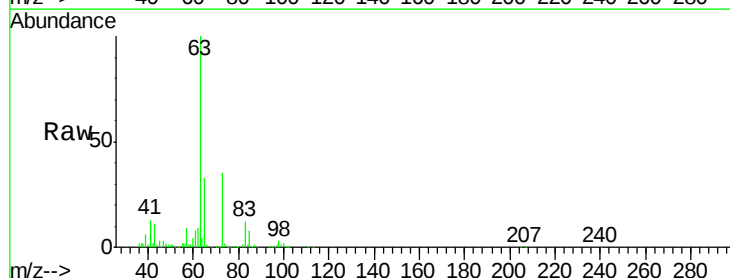
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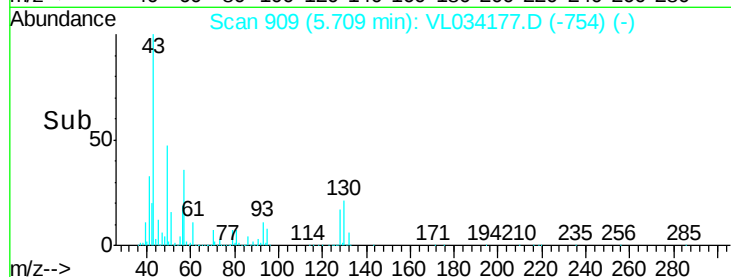
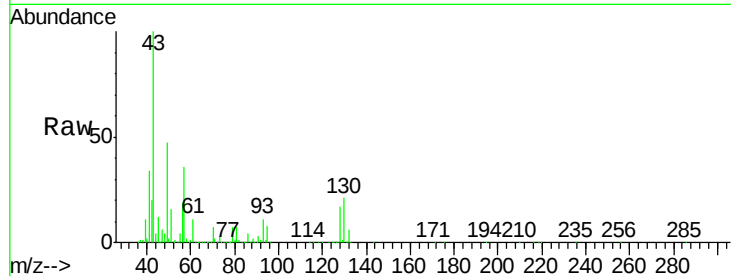
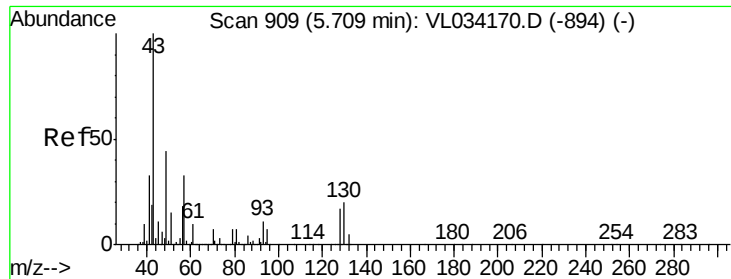
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#24
 1,1-Dichloroethane
 Concen: 8.698 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	63	Resp	1450905
Ion	Ratio	Lower	Upper
63	100		
98	3.4	1.8	5.3
100	2.4	1.0	3.0





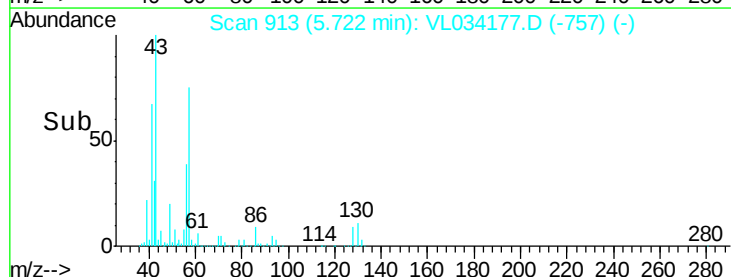
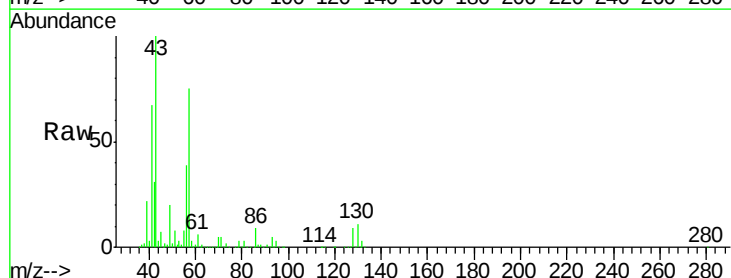
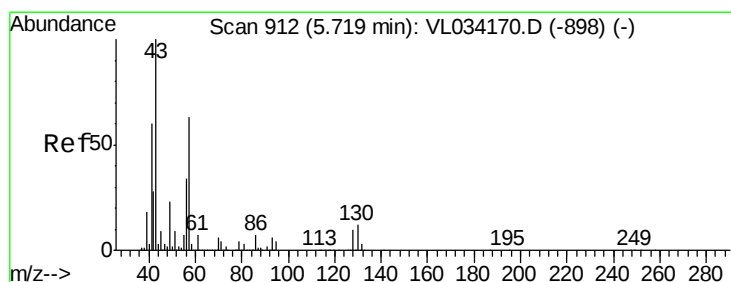
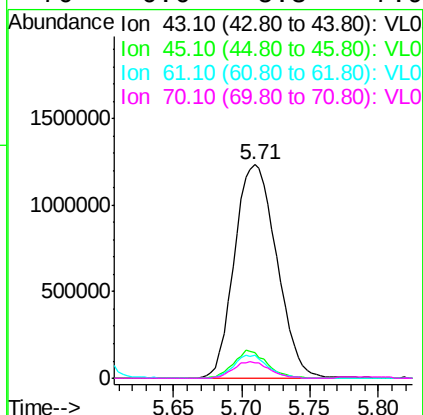
#25
Ethyl Acetate
Concen: 8.315 ppbv
RT: 5.71 min Scan# 909
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tot Ion:	43	Resp:	2643610
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.4	12.6
61	9.0	7.2	10.8
70	6.6	5.3	7.9

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

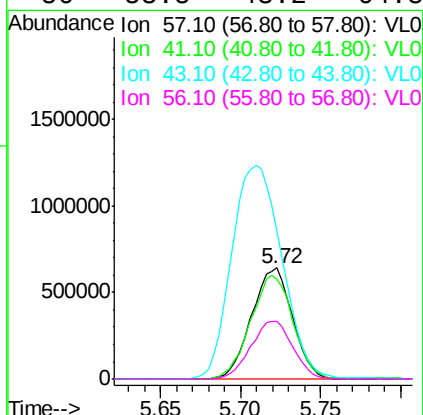
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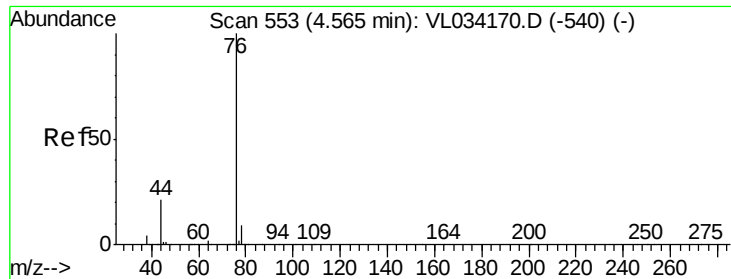
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#26
Hexane
Concen: 8.529 ppbv
RT: 5.72 min Scan# 913
Delta R.T. 0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion:	57	Resp:	1127933
Ion	Ratio	Lower	Upper
57	100		
41	96.5	78.5	117.7
43	235.3	189.5	284.3
56	53.5	43.2	64.8





#27

Carbon Disulfide

Concen: 9.785 ppbv

RT: 4.56 min Scan# 553

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 76 Resp: 1193405

Ion Ratio Lower Upper

76 100

44 21.8 17.6 26.4

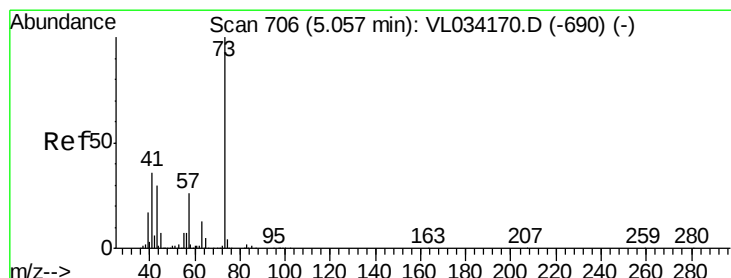
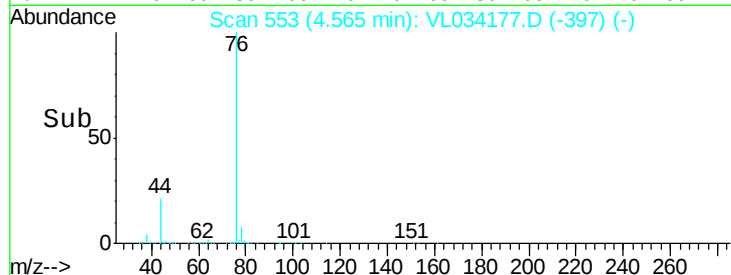
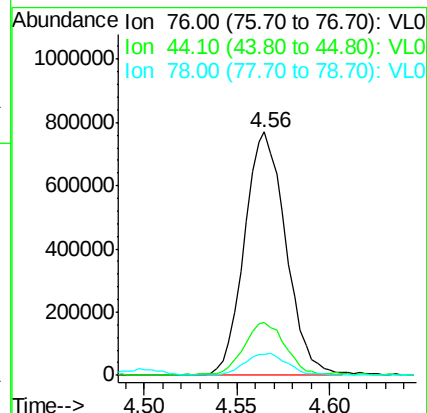
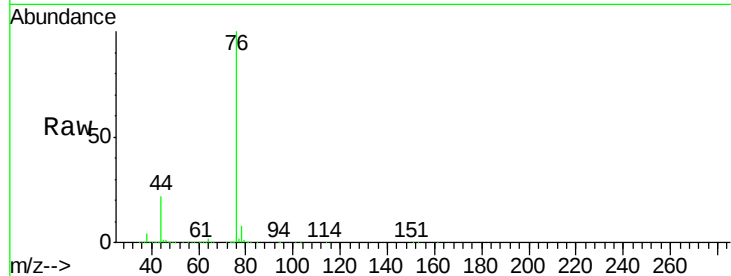
78 9.0 7.6 11.4

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 8.990 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.00 min

Lab File: VL034177.D

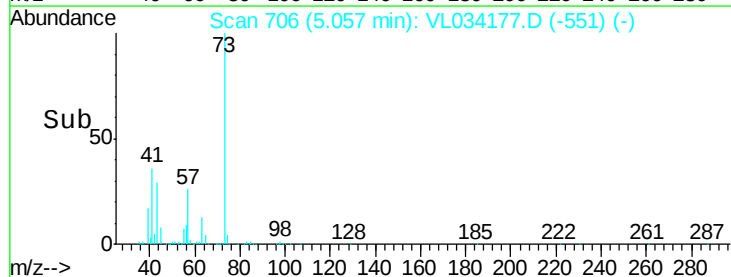
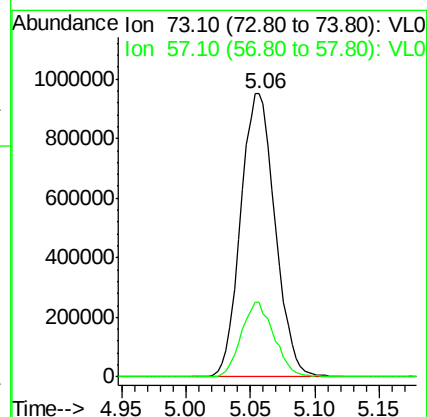
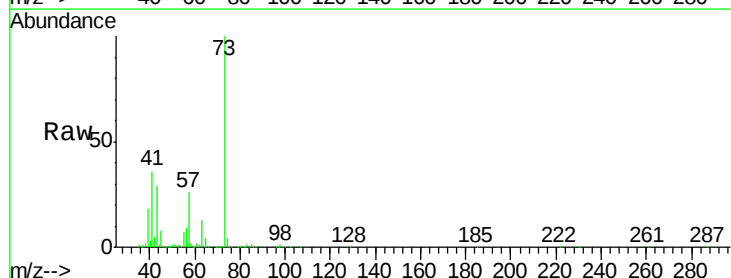
Acq: 17 Sep 2019 8:45

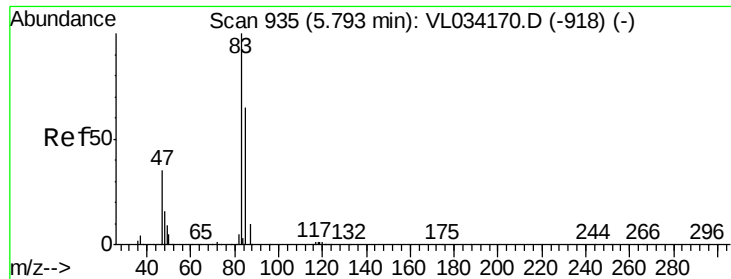
Tgt Ion: 73 Resp: 1765832

Ion Ratio Lower Upper

73 100

57 25.2 20.2 30.2





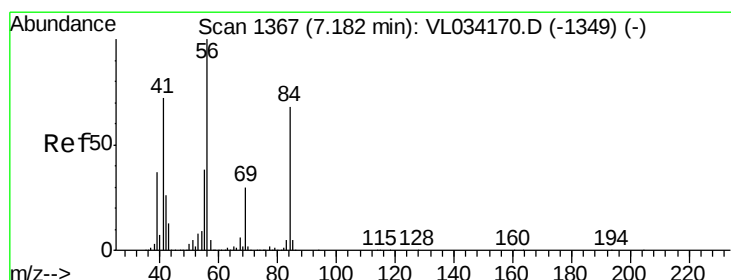
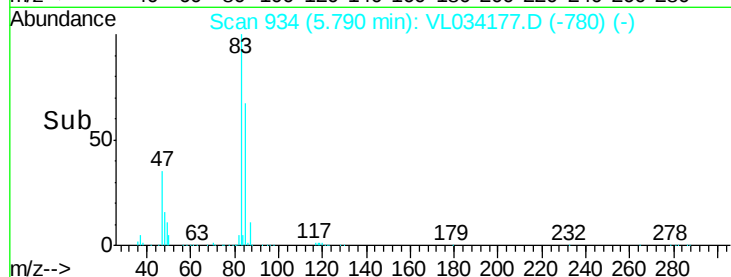
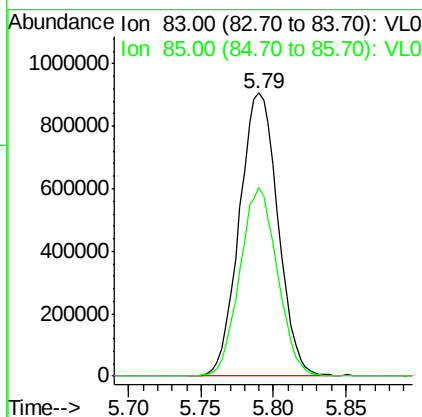
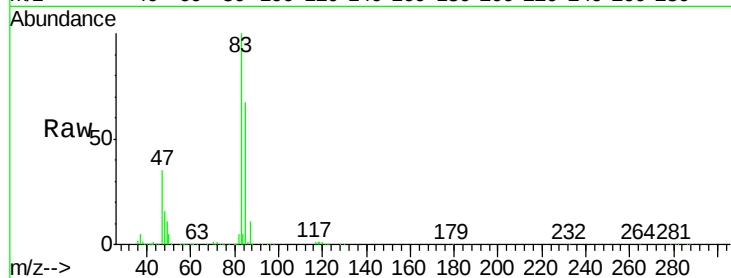
#29
Chloroform
Concen: 8.872 ppbv
RT: 5.79 min Scan# 934
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion: 83 Resp: 1676634
Ion Ratio Lower Upper
83 100
85 66.7 52.3 78.5

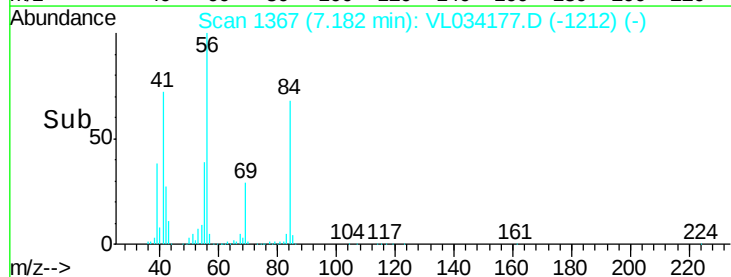
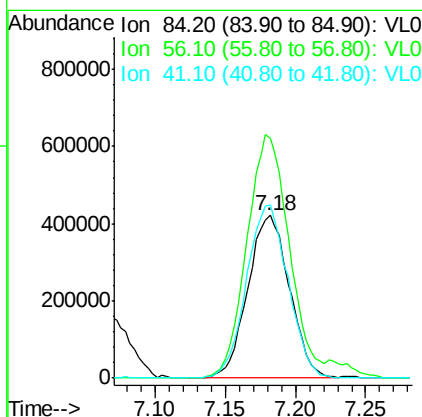
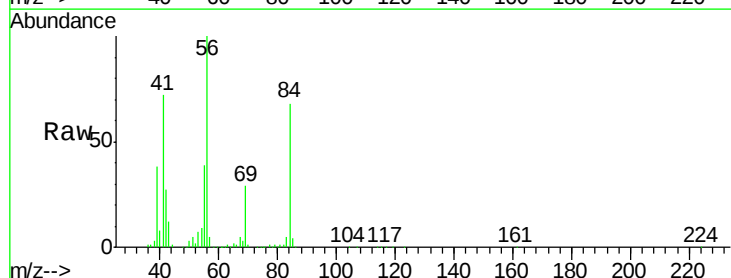
Manual Integrations
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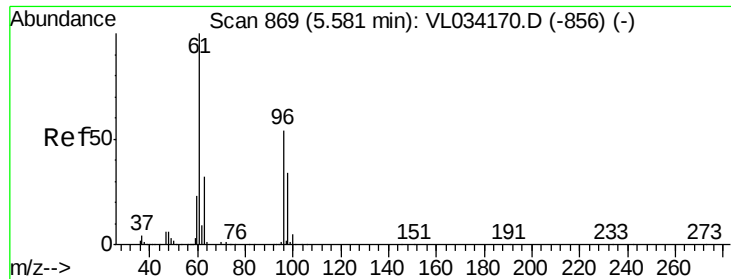
MMDadoda
9/20/2019 12:44:15 AM



#30
Cyclohexane
Concen: 9.117 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion: 84 Resp: 870524
Ion Ratio Lower Upper
84 100
56 158.7 126.2 189.2
41 106.8 85.8 128.8





#31

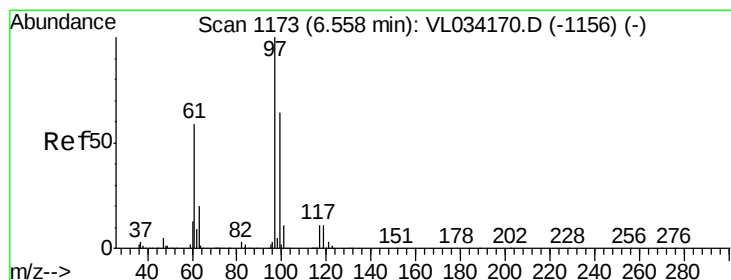
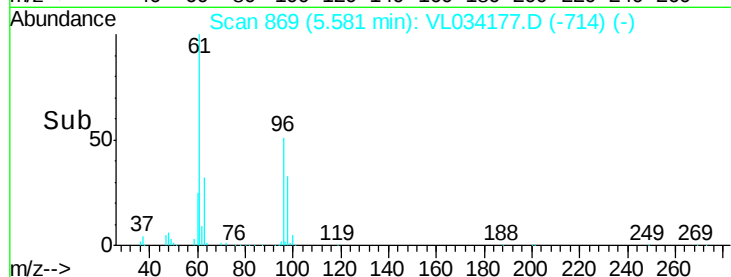
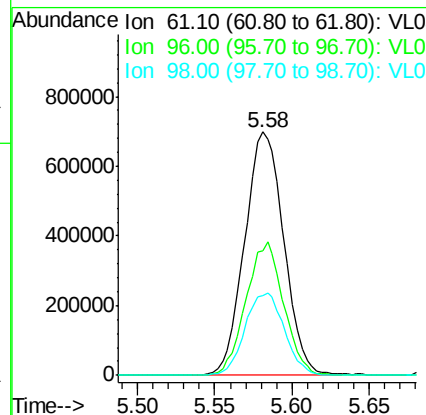
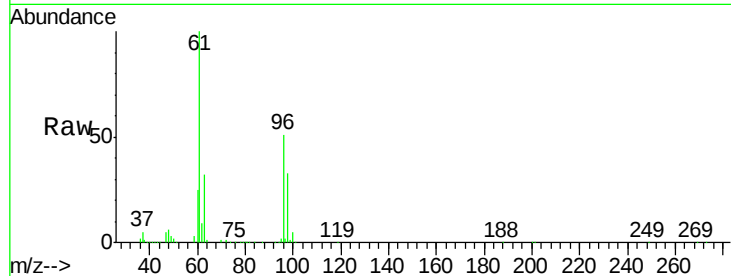
cis-1,2-Dichloroethene
Concen: 9.131 ppbv
RT: 5.58 min Scan# 869
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion	Ratio	Lower	Upper
61	100		
96	51.1	43.0	64.4
98	32.8	27.2	40.8

Manual Integrations
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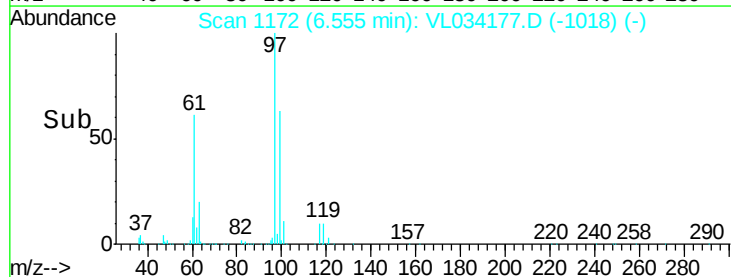
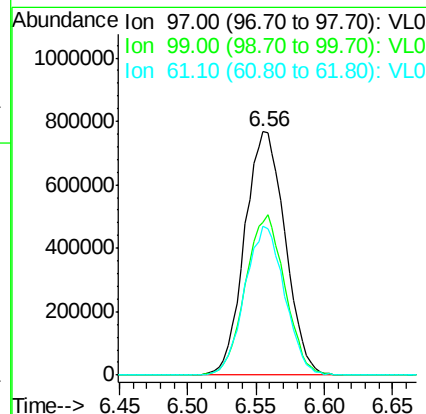
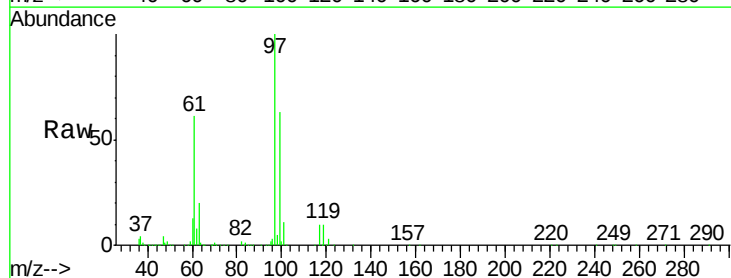
MMDadoda
9/20/2019 12:44:15 AM

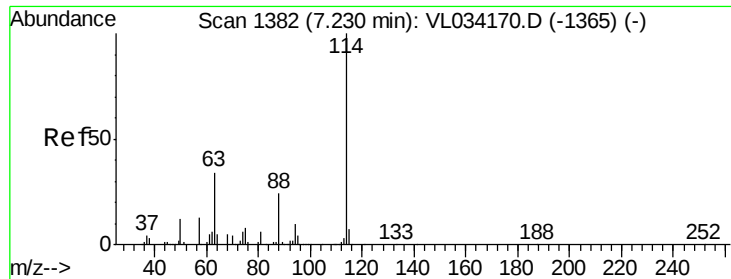


#32

1,1,1-Trichloroethane
Concen: 8.643 ppbv
RT: 6.56 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.2
61	60.4	48.4	72.6





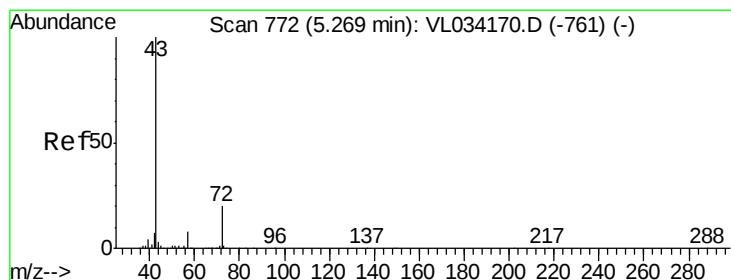
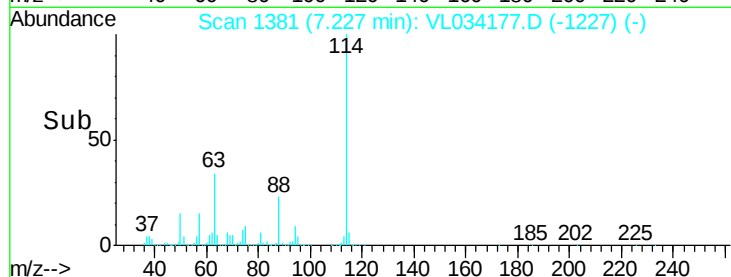
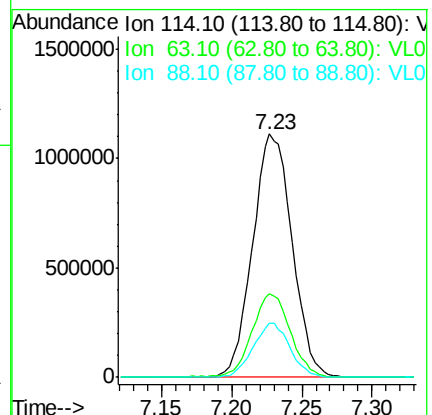
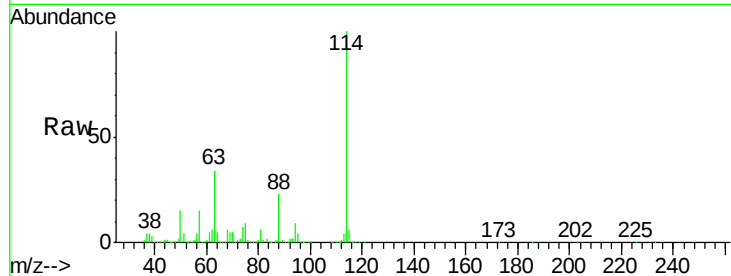
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.8	27.8	41.6
88	21.0	17.1	25.7

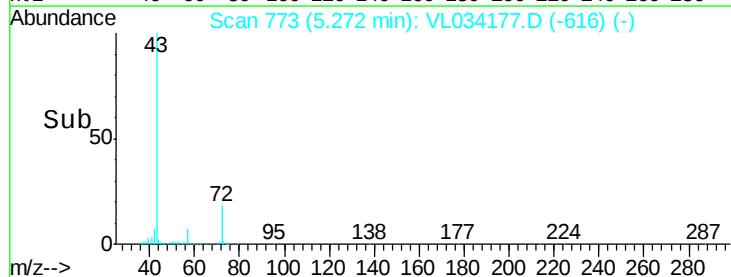
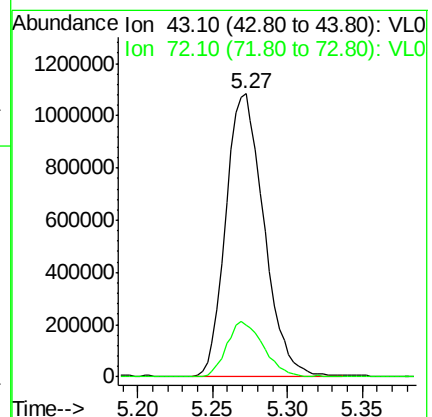
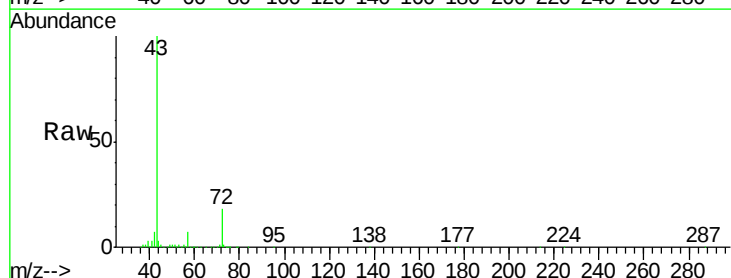
Manual Integrations
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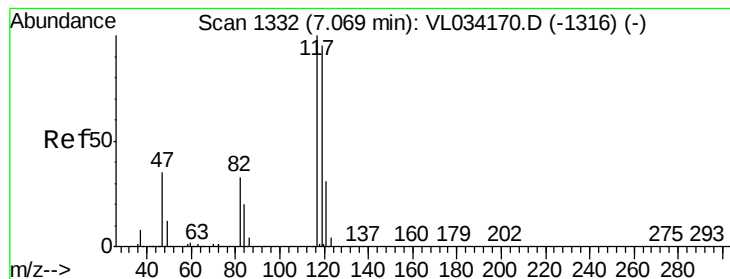
MMDadoda
 9/20/2019 12:44:15 AM



#34
 2-Butanone
 Concen: 8.591 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.0	15.0	22.6





#35

Carbon Tetrachloride

Concen: 8.554 ppbv

RT: 7.07 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 117 Resp: 1550430

Ion Ratio Lower Upper

117 100

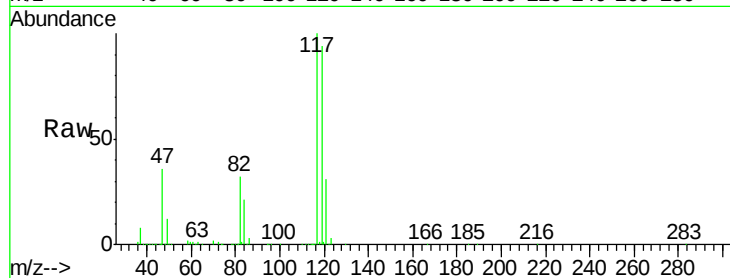
119 93.9 75.8 113.6

121 31.5 25.0 37.6

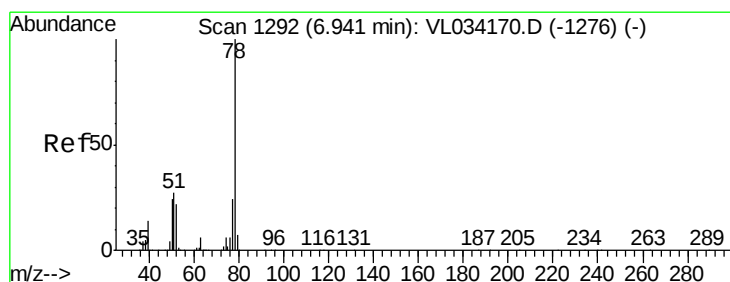
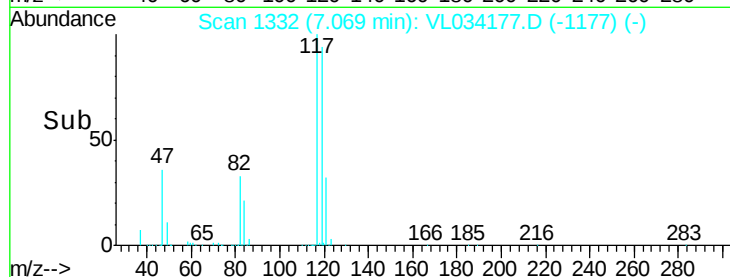
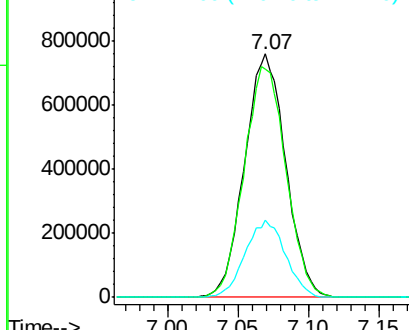
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.799 ppbv

RT: 6.94 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

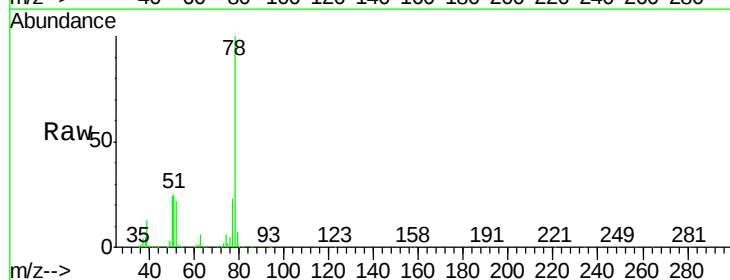
Tgt Ion: 78 Resp: 2120171

Ion Ratio Lower Upper

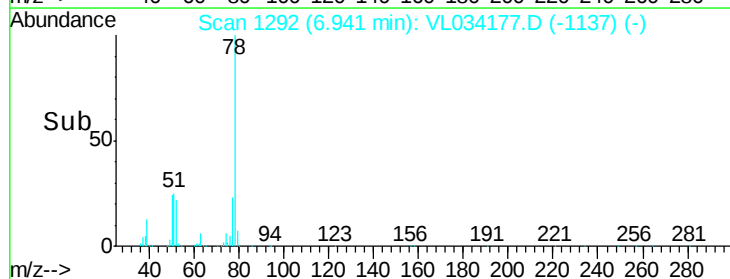
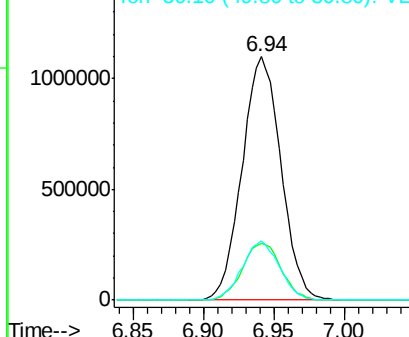
78 100

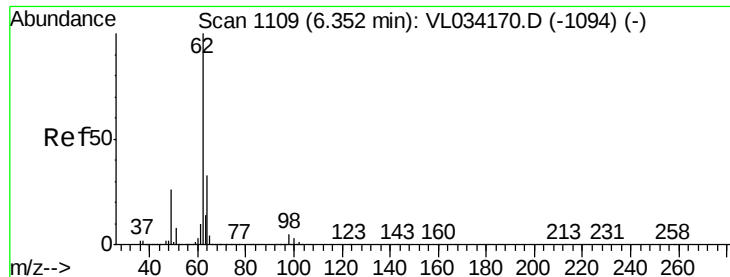
77 23.2 19.0 28.4

50 24.1 18.9 28.3



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





#37

1,2-Dichloroethane

Concen: 8.734 ppbv

RT: 6.35 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 62 Resp: 1496854

Ion Ratio Lower Upper

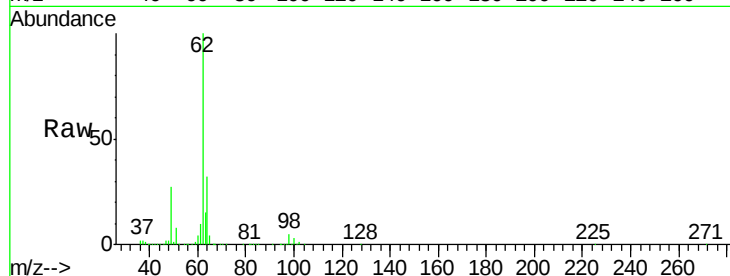
62 100

98 4.7 3.8 5.8

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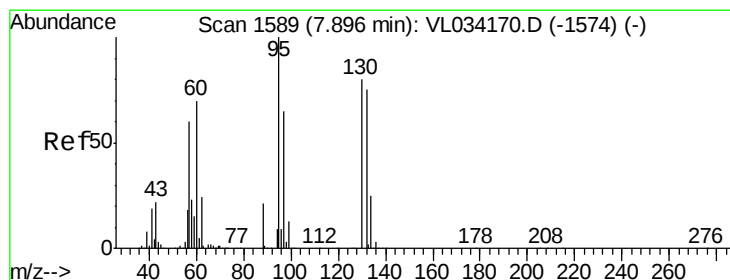
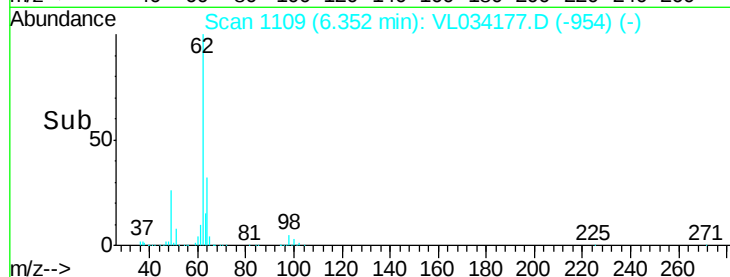
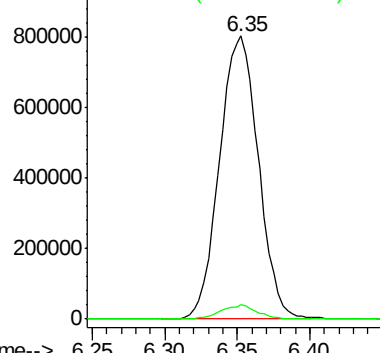
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 8.124 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tgt Ion: 130 Resp: 699389

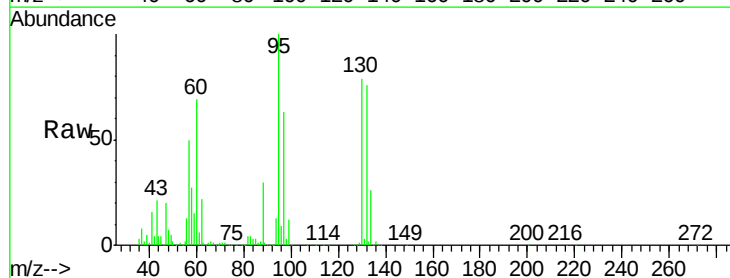
Ion Ratio Lower Upper

130 100

95 127.6 99.8 149.6

132 97.2 75.2 112.8

97 80.8 65.0 97.4

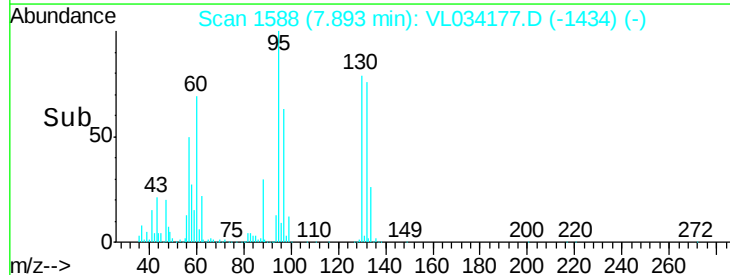
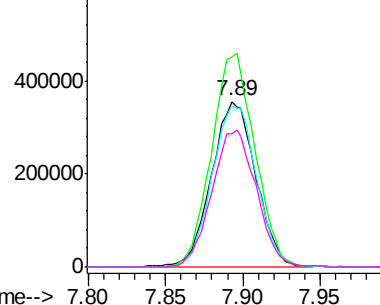


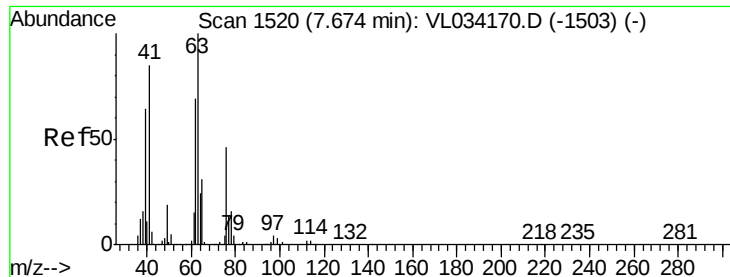
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





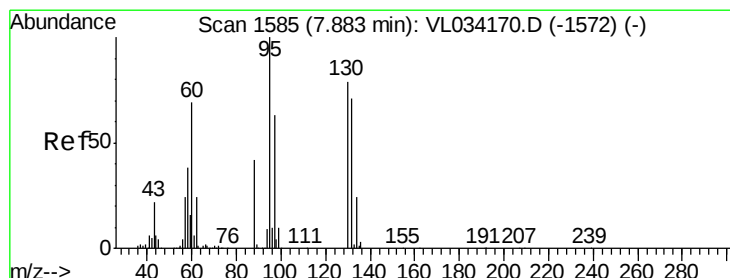
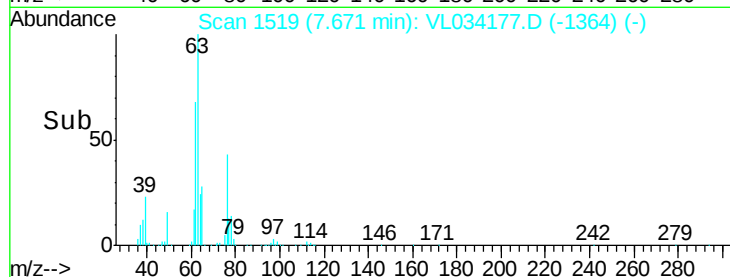
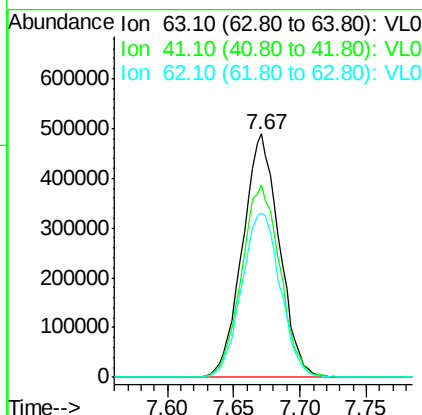
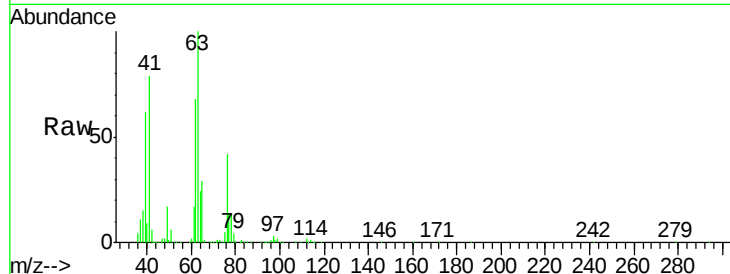
#39
 1,2-Dichloropropane
 Concen: 8.734 ppbv
 RT: 7.67 min Scan# 1519
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	Ratio	Lower	Upper
63	100		
41	78.9	68.4	102.6
62	67.6	55.4	83.2

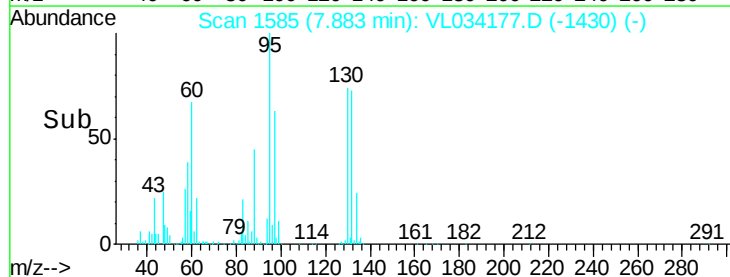
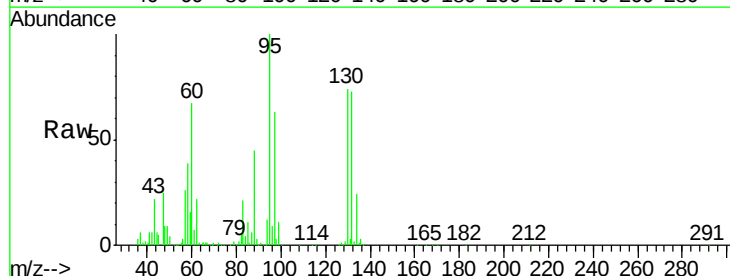
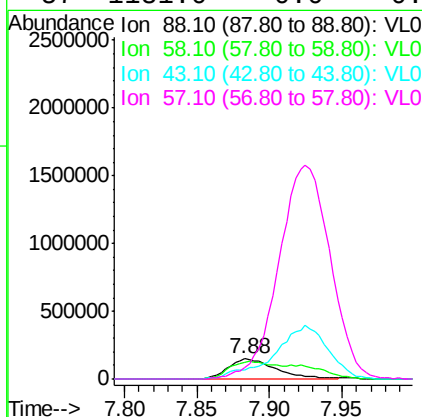
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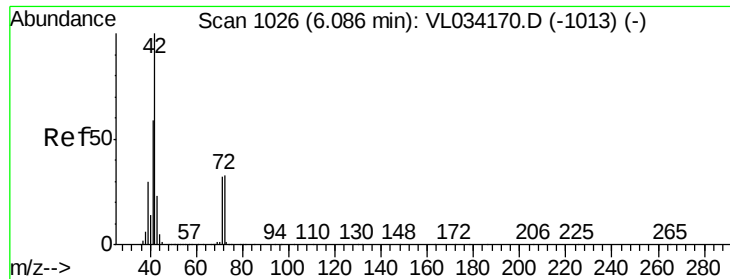
MMDadoda
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#40
 1,4-Dioxane
 Concen: 9.415 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	145.8	131.8	197.6
43	307.4	0.0	0.0#
57	1181.0	0.0	0.0#





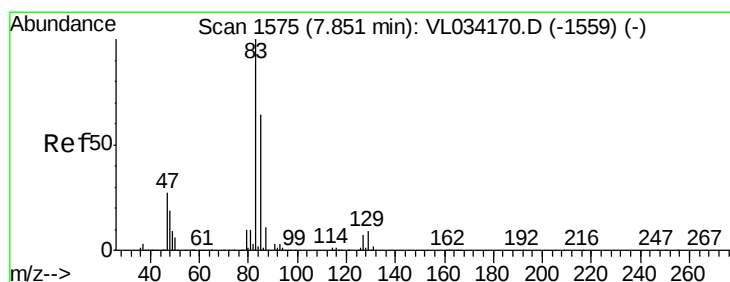
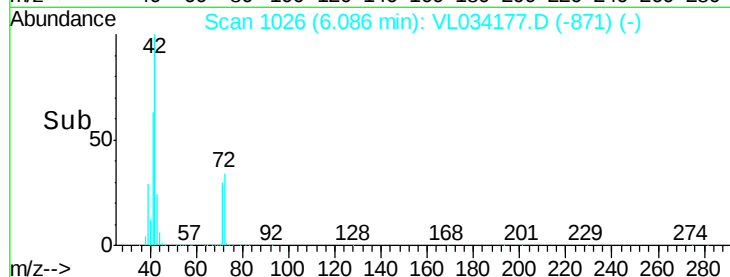
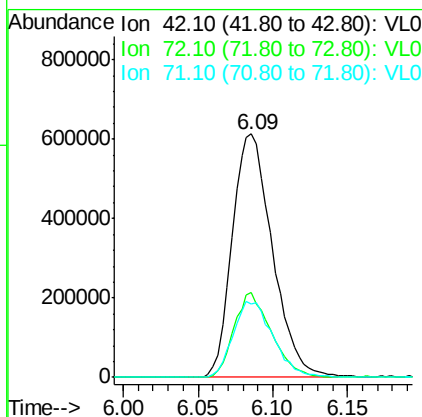
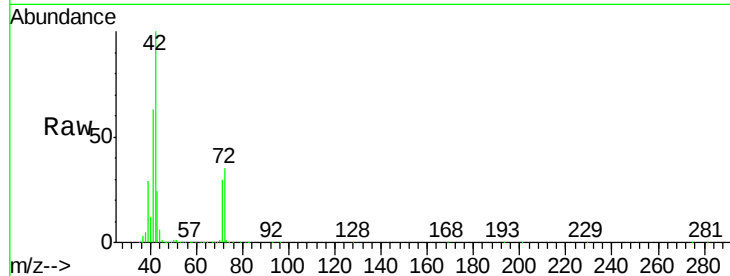
#41
Tetrahydrofuran
Concen: 9.120 ppbv
RT: 6.09 min Scan# 1026
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.9	26.6	40.0
71	31.4	25.1	37.7

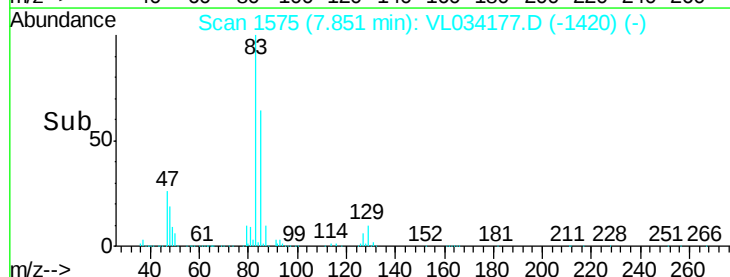
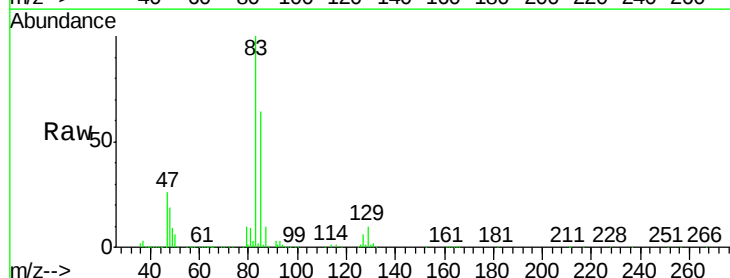
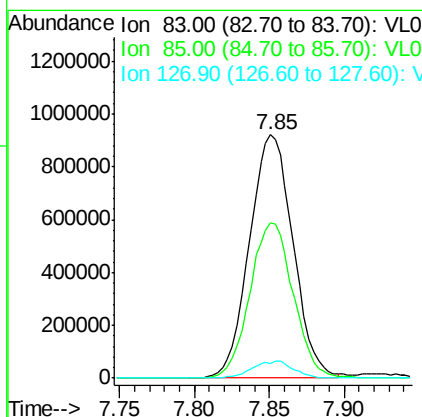
Manual Integrations
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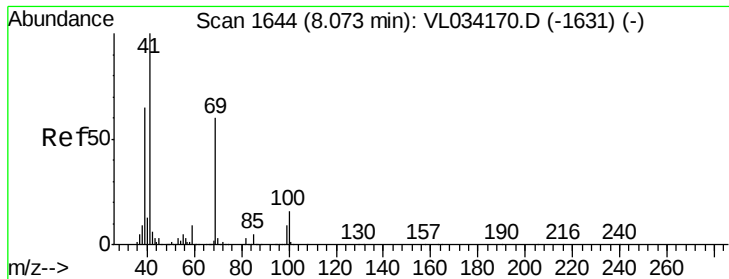
MMDadoda
9/20/2019 12:44:15 AM



#42
Bromodichloromethane
Concen: 9.063 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.4	77.0
127	6.0	5.5	8.3





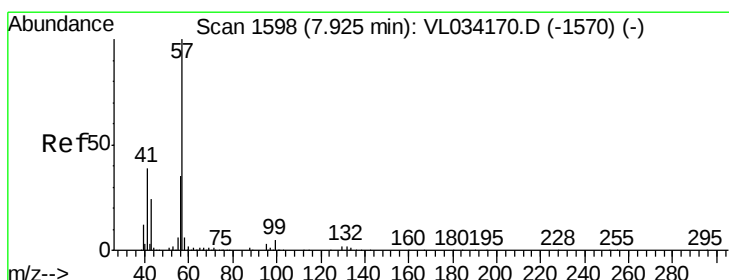
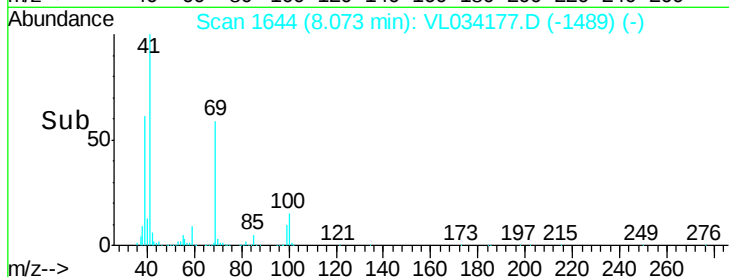
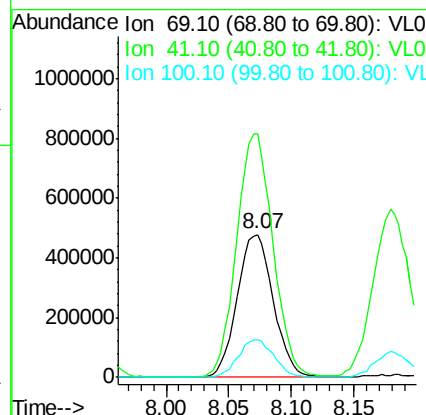
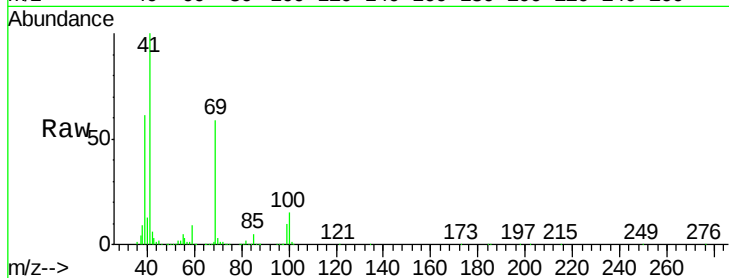
#43
Methvl Methacrylate
Concen: 9.621 ppbv
RT: 8.07 min Scan# 1644
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	171.6	140.4	210.6	
100	26.2	21.9	32.9	

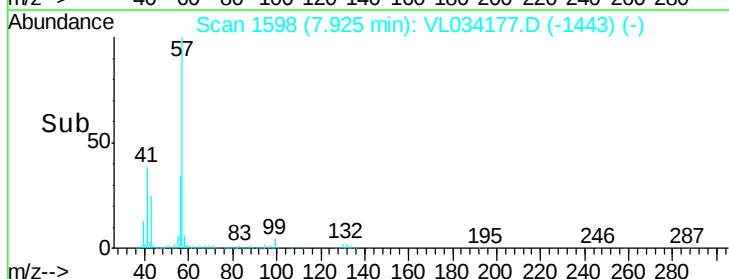
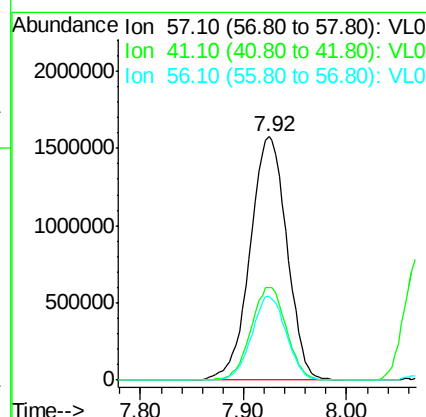
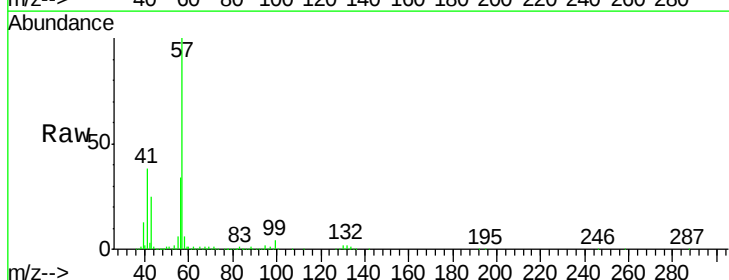
Manual Integrations
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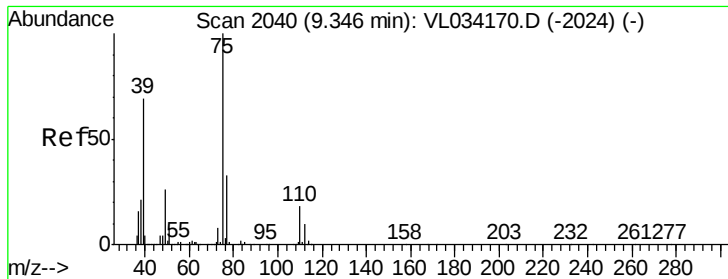
MMDadoda
9/20/2019 12:44:15 AM



#44
2,2,4-Trimethylpentane
Concen: 8.392 ppbv
RT: 7.92 min Scan# 1598
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.6	29.8	44.6	
56	32.5	25.9	38.9	





#45

t-1,3-Dichloropropene

Concen: 9.993 ppbv

RT: 9.35 min Scan# 2040

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tot Ion: 75 Resp: 1176052

Ion Ratio Lower Upper

75 100

77 33.5 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

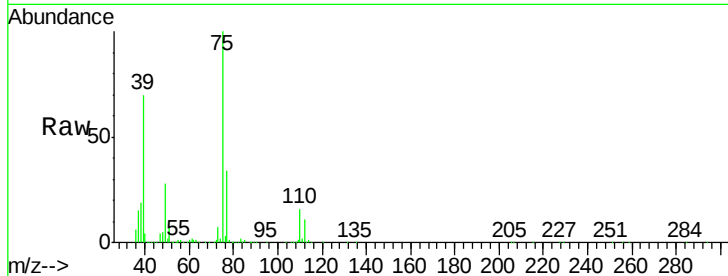
ICVVL091719

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.35

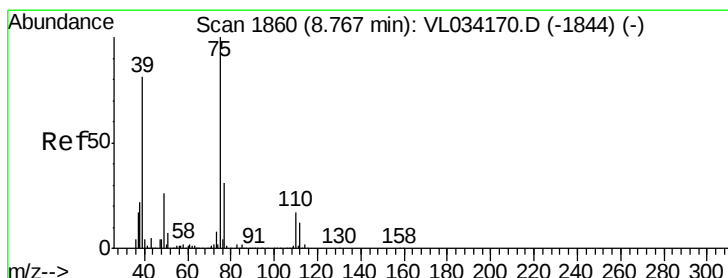
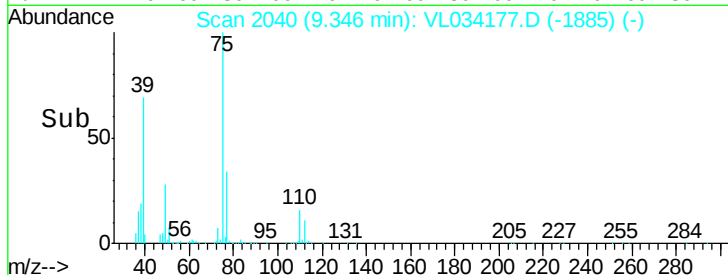
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.630 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

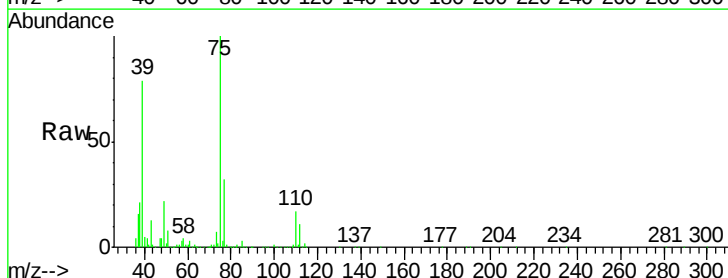
Tgt Ion: 75 Resp: 1363376

Ion Ratio Lower Upper

75 100

39 79.2 65.0 97.4

77 32.0 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.77

800000

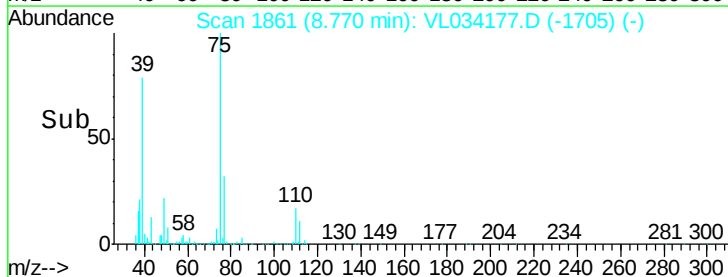
600000

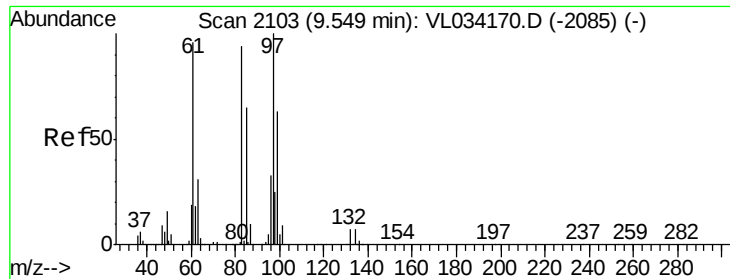
400000

200000

0

Time-->





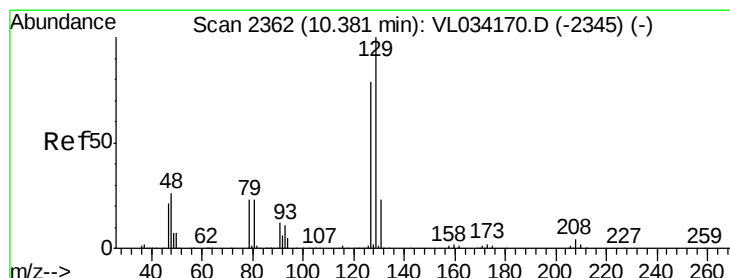
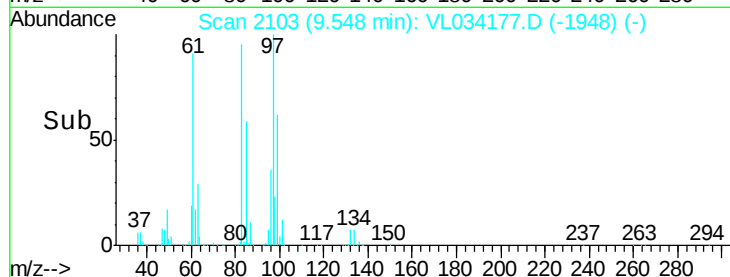
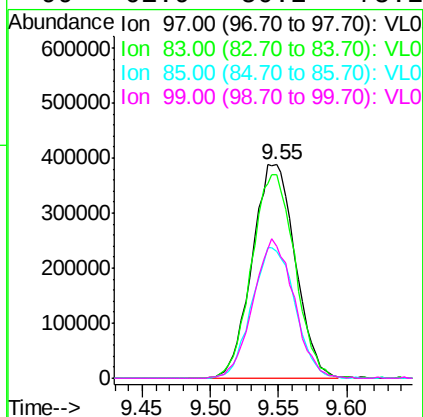
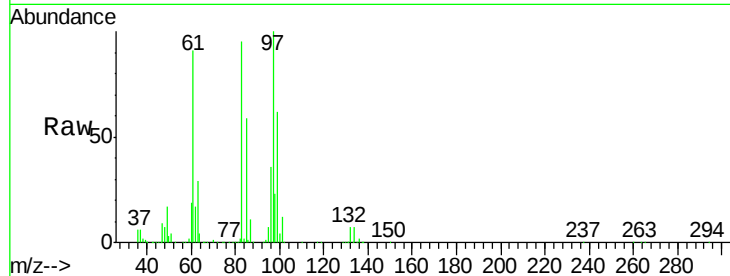
#47
 1,1,2-Trichloroethane
 Concen: 8.784 ppbv
 RT: 9.55 min Scan# 2103
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	95.1	75.3	112.9	
85	59.5	52.1	78.1	
99	61.9	50.2	75.2	

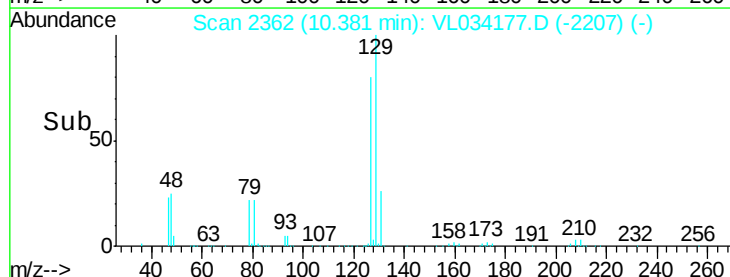
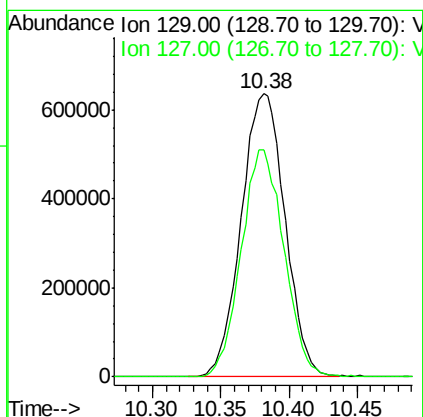
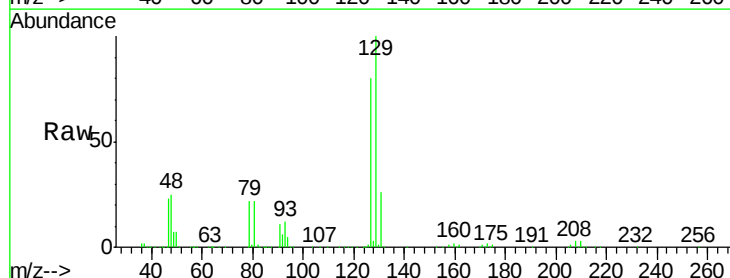
Manual Integrations
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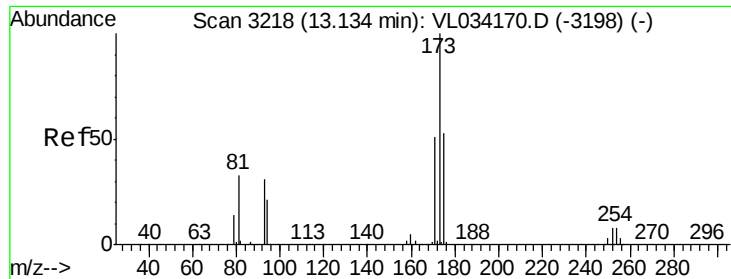
MMDadoda
 9/20/2019 12:44:15 AM



#48
 Dibromochloromethane
 Concen: 9.207 ppbv
 RT: 10.38 min Scan# 2362
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.2	117.6	





#49

Bromoform

Concen: 9.454 ppbv

RT: 13.13 min Scan# 3217

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:173 Resp: 1178784

Ion Ratio Lower Upper

173 100

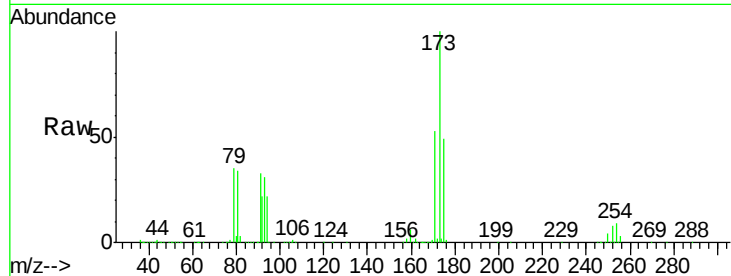
175 49.9 40.3 60.5

171 53.3 42.0 63.0

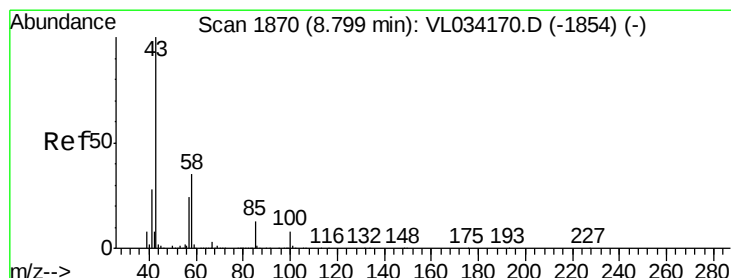
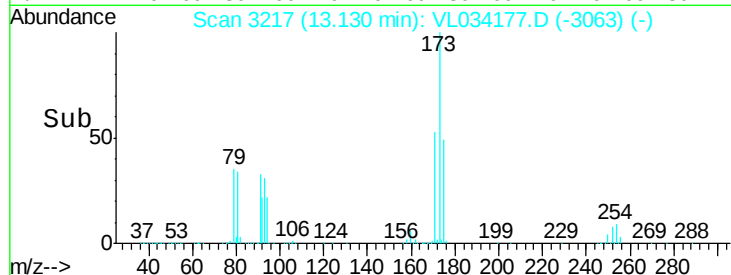
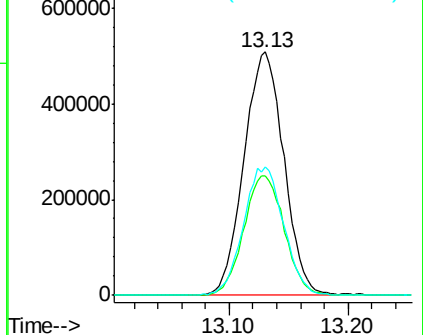
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.673 ppbv

RT: 8.80 min Scan# 1870

Delta R.T. -0.00 min

Lab File: VL034177.D

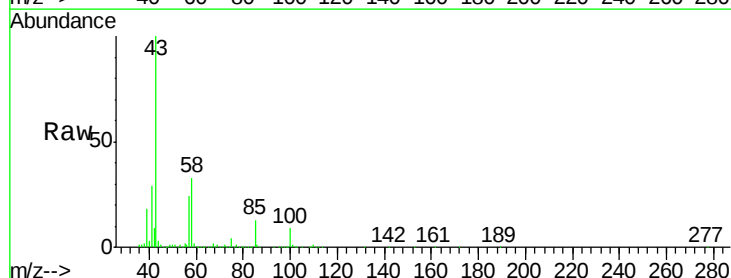
Acq: 17 Sep 2019 8:45

Tgt Ion: 43 Resp: 2811778

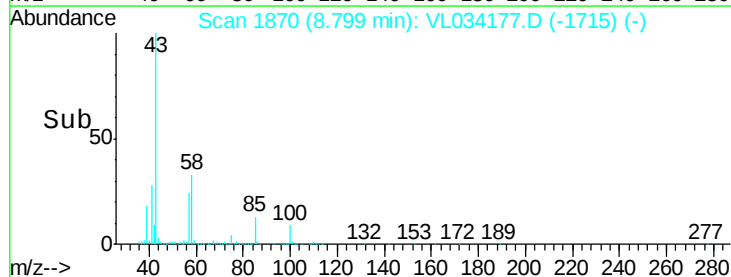
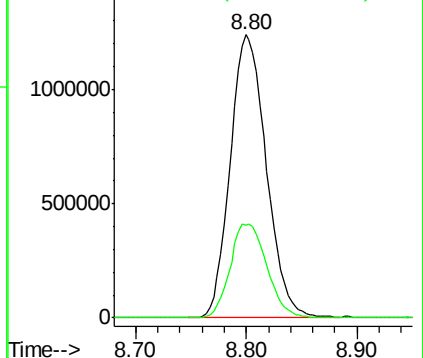
Ion Ratio Lower Upper

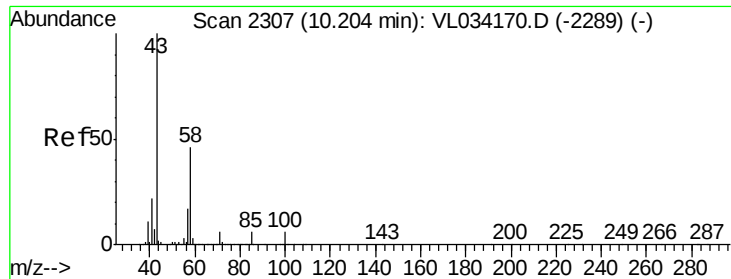
43 100

58 33.9 27.6 41.4



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





#51

2-Hexanone

Concen: 8.979 ppbv

RT: 10.20 min Scan# 2306

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

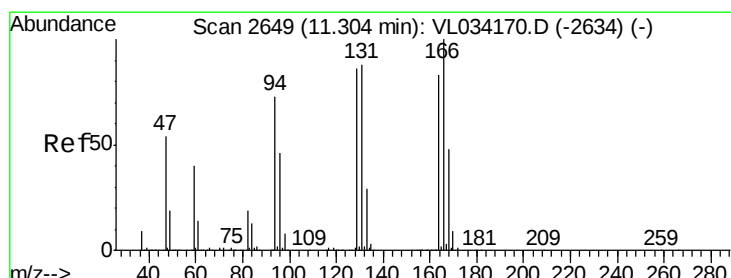
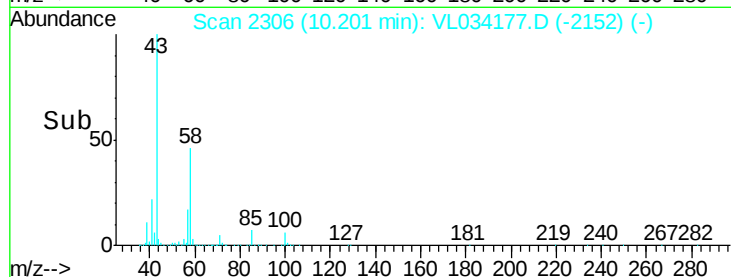
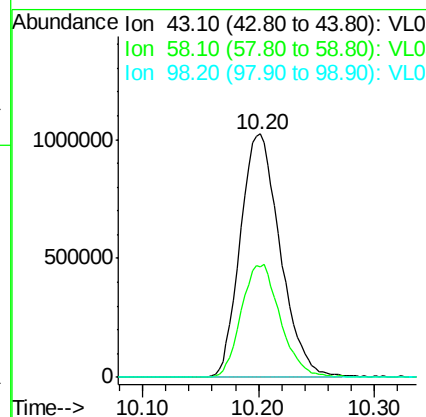
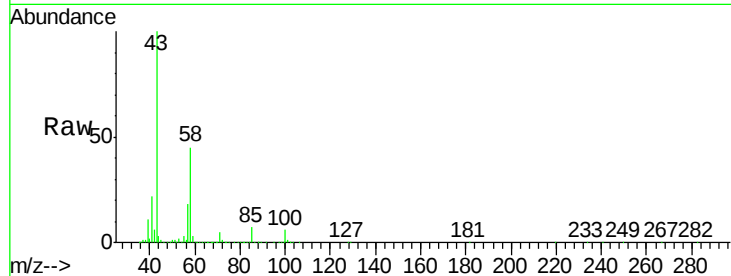
ClientSampleId :

ICVVL091719

Tot Ion:	43	Resp:	2443017
Ion	Ratio	Lower	Upper
43	100		
58	45.7	36.2	54.4
98	0.0	0.2	0.2#

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#52

Tetrachloroethene

Concen: 8.430 ppbv

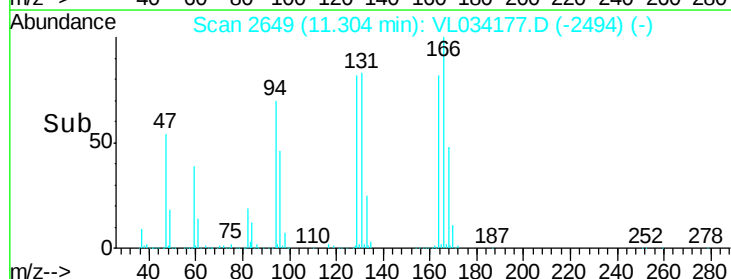
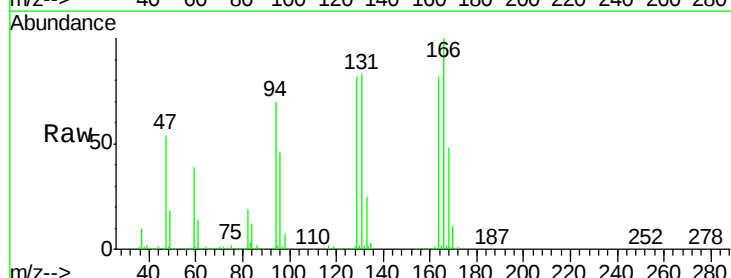
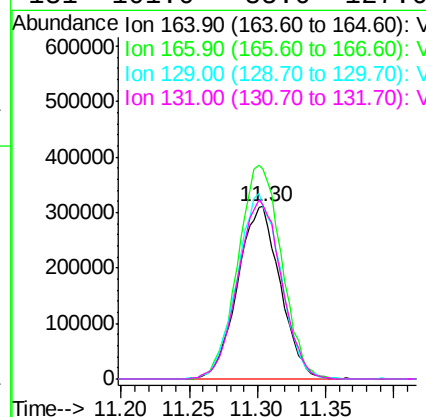
RT: 11.30 min Scan# 2649

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tgt Ion:	164	Resp:	671107
Ion	Ratio	Lower	Upper
164	100		
166	121.8	96.7	145.1
129	100.4	82.8	124.2
131	101.0	85.0	127.6





#53

Toluene

Concen: 8.945 ppbv

RT: 9.88 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 91 Resp: 2355514

Ion Ratio Lower Upper

91 100

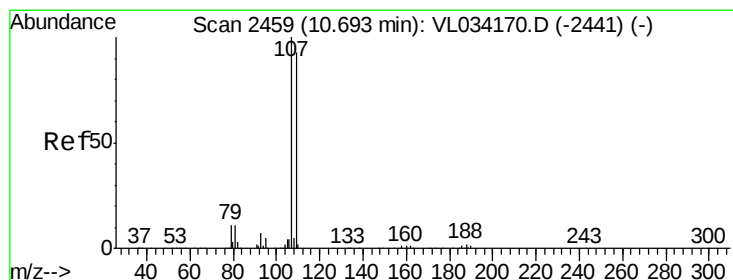
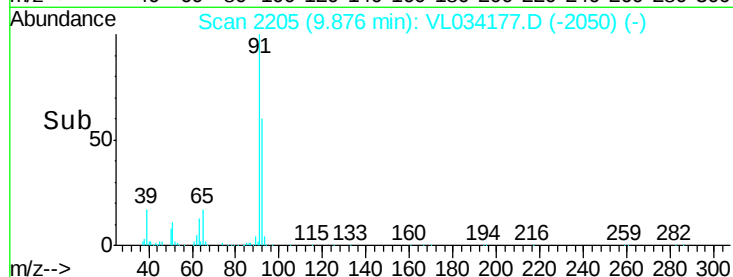
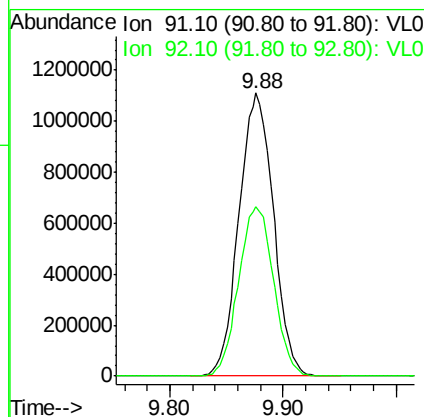
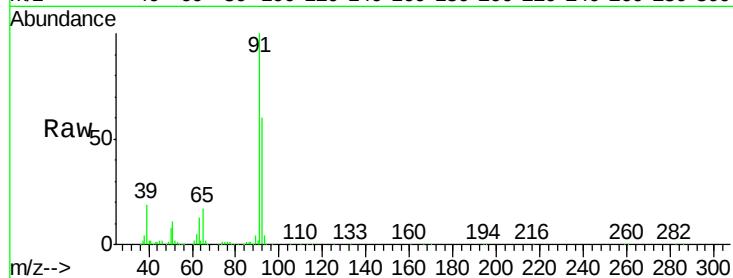
92 60.8 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.132 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. -0.01 min

Lab File: VL034177.D

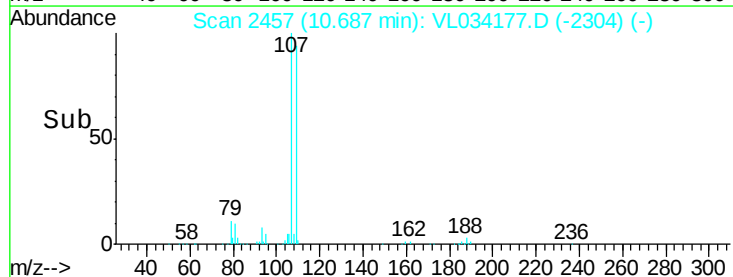
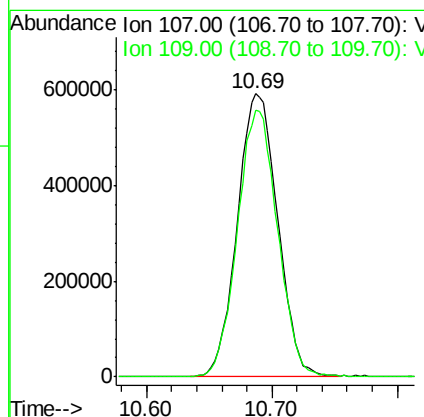
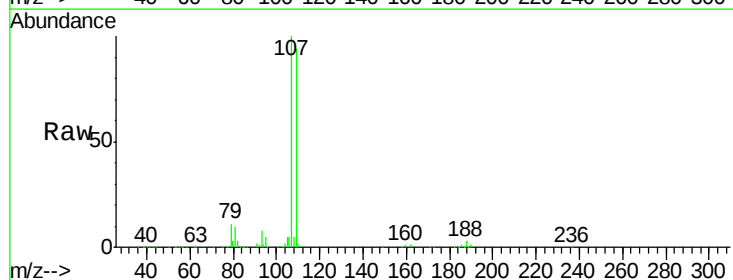
Acq: 17 Sep 2019 8:45

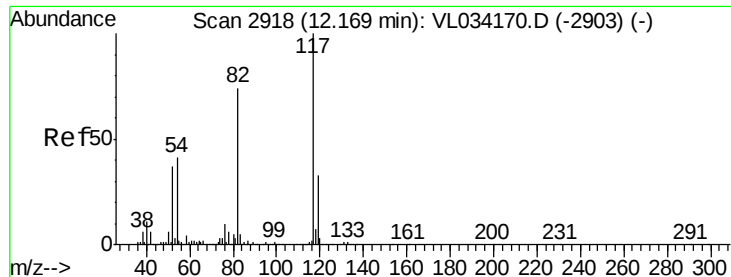
Tgt Ion: 107 Resp: 1320172

Ion Ratio Lower Upper

107 100

109 94.3 74.5 111.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:117 Resp: 2340734

Ion Ratio Lower Upper

117 100

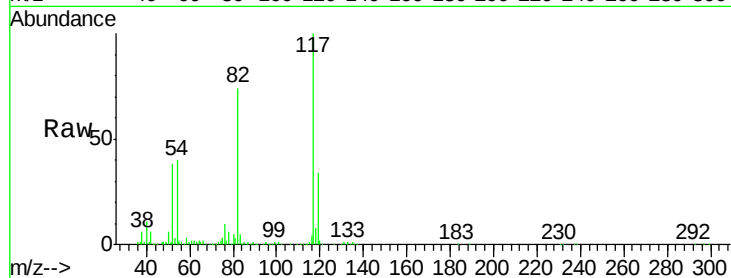
82 74.9 58.2 87.4

119 55.5 23.7 35.5#

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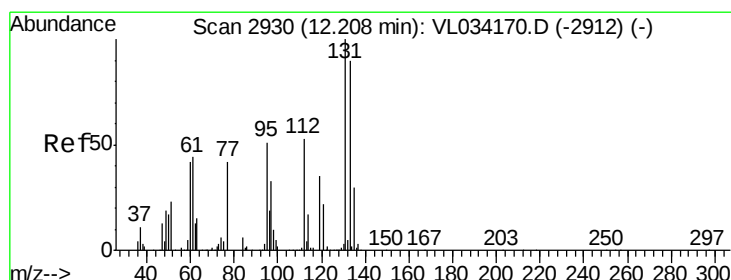
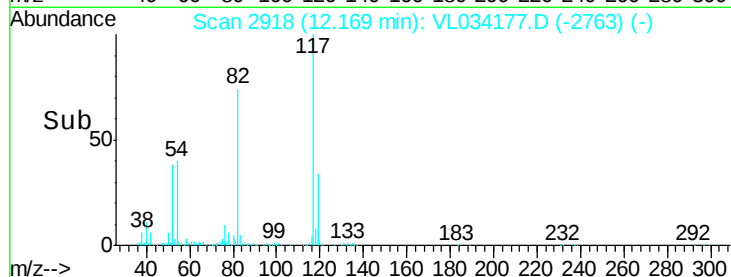
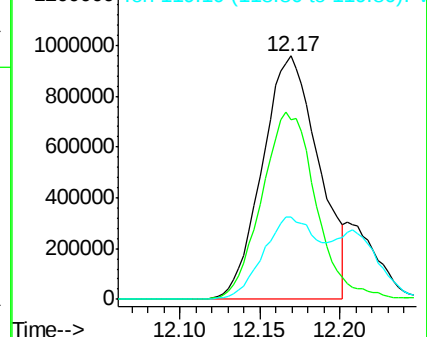
9/20/2019 12:44:15 AM



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.784 ppbv

RT: 12.21 min Scan# 2931

Delta R.T. 0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

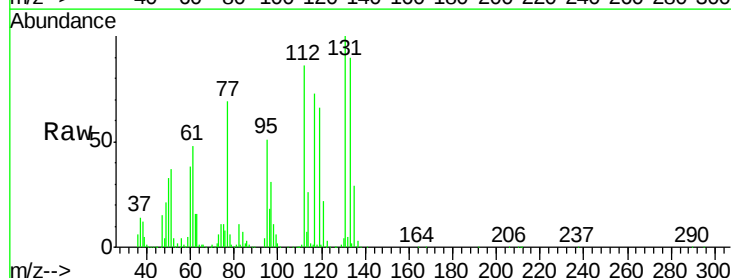
Tgt Ion:131 Resp: 916985

Ion Ratio Lower Upper

131 100

133 95.3 75.1 112.7

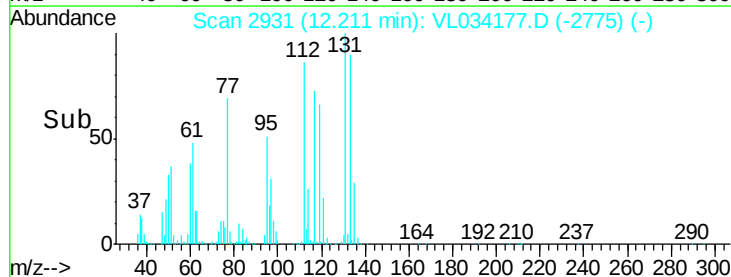
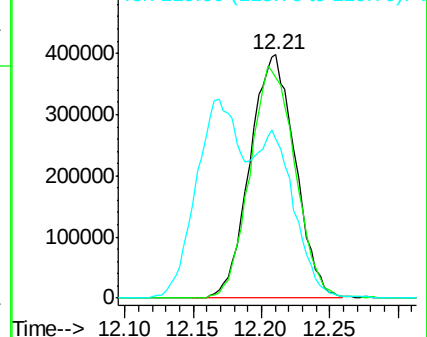
119 142.0 47.4 71.0#

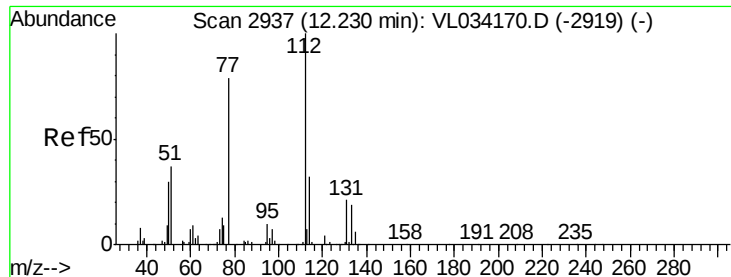


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.345 ppbv

RT: 12.23 min Scan# 2937

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 112 Resp: 1700657

Ion Ratio Lower Upper

112 100

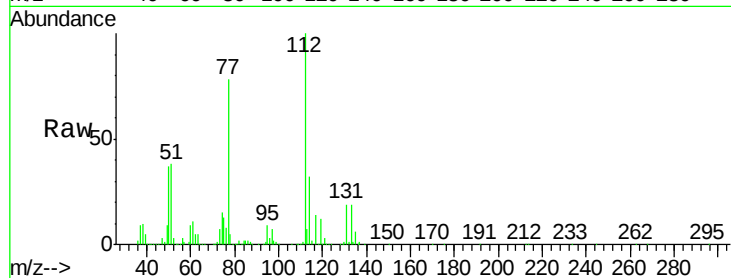
77 78.1 64.3 96.5

114 31.9 28.9 35.3

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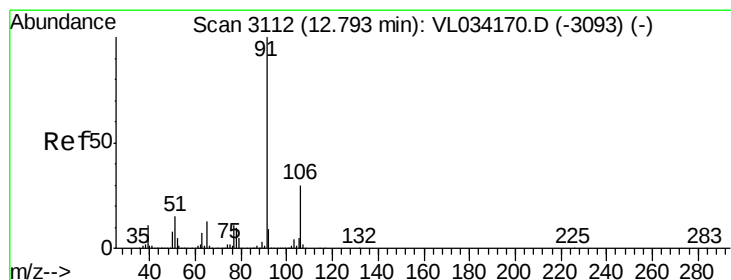
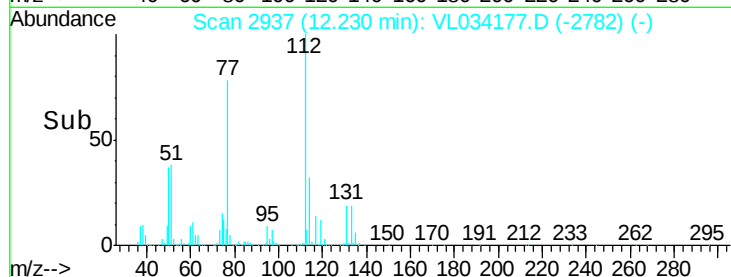
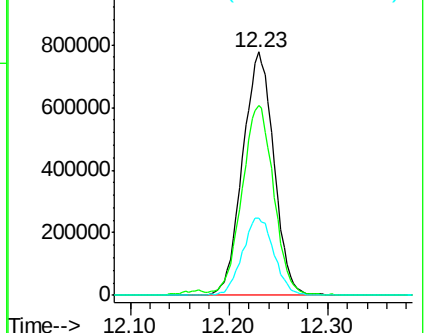
9/20/2019 12:44:15 AM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.546 ppbv

RT: 12.79 min Scan# 3112

Delta R.T. -0.00 min

Lab File: VL034177.D

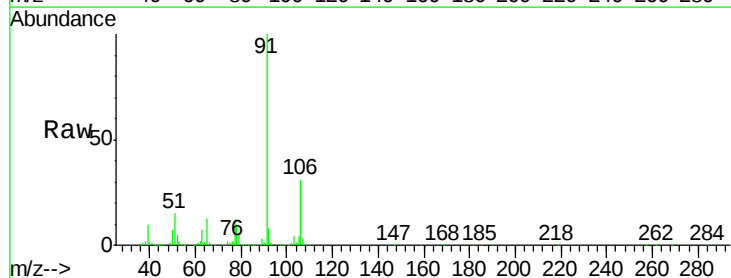
Acq: 17 Sep 2019 8:45

Tgt Ion: 91 Resp: 3227887

Ion Ratio Lower Upper

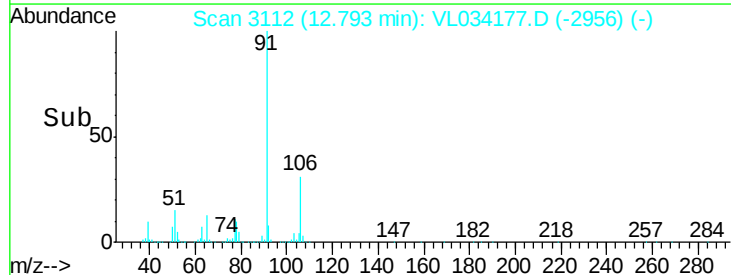
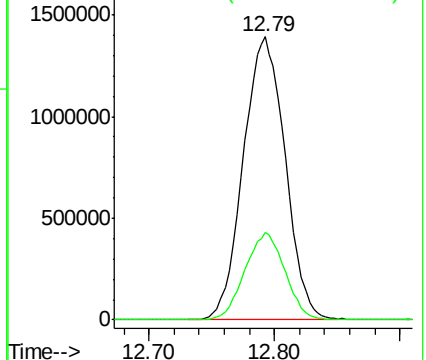
91 100

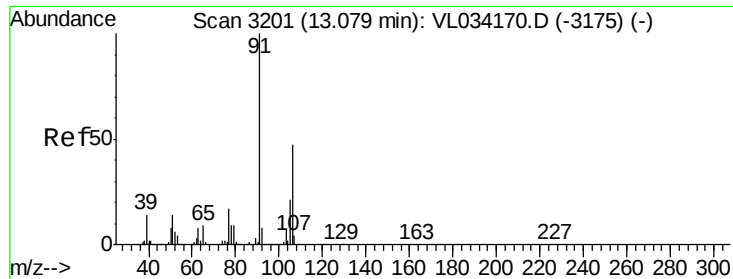
106 30.8 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





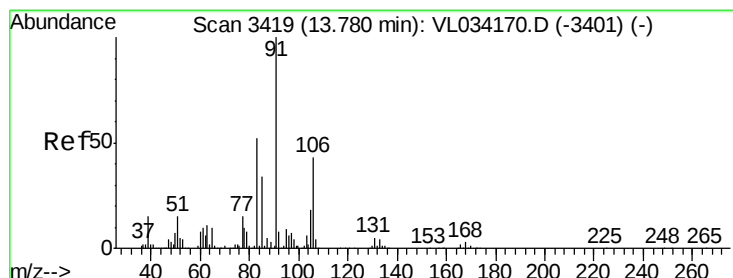
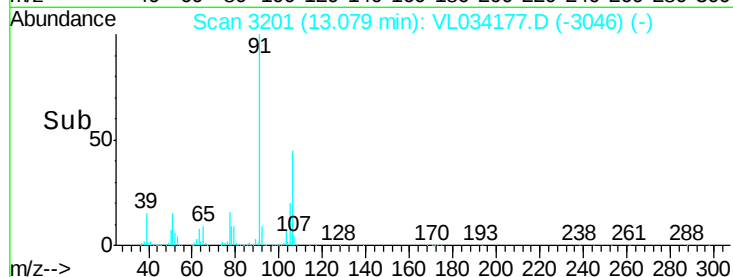
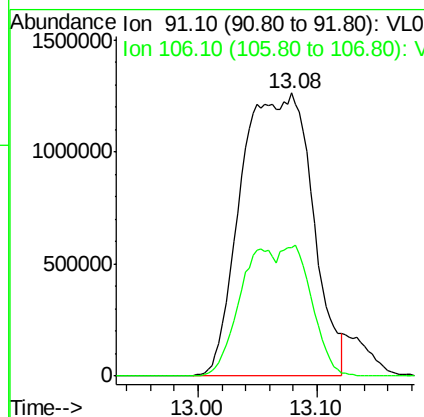
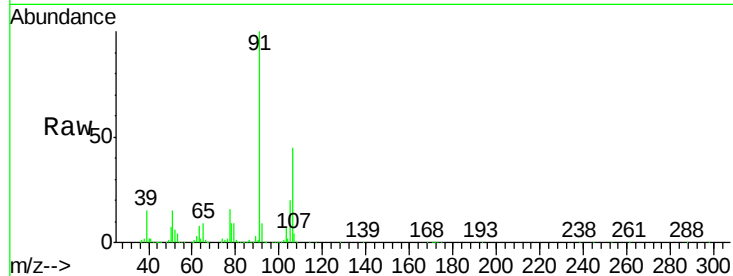
#59
m/p-Xylene
Concen: 16.691 ppbv m
RT: 13.08 min Scan# 3201
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion: 91 Resp: 5221536
Ion Ratio Lower Upper
91 100
106 44.2 35.5 53.3

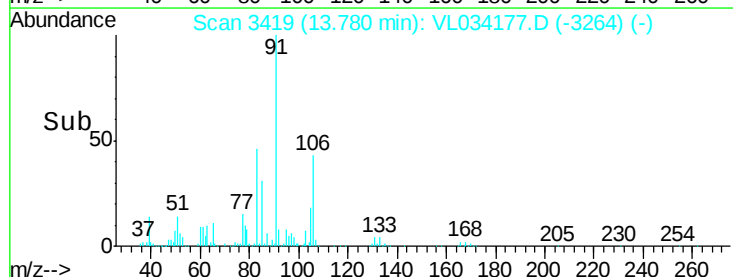
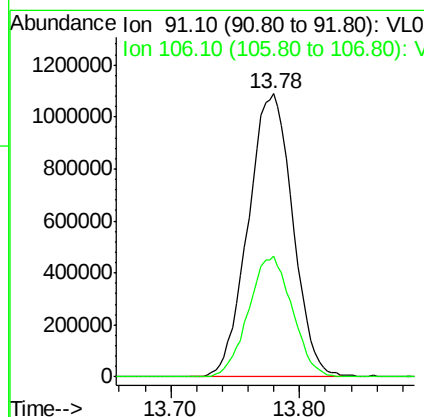
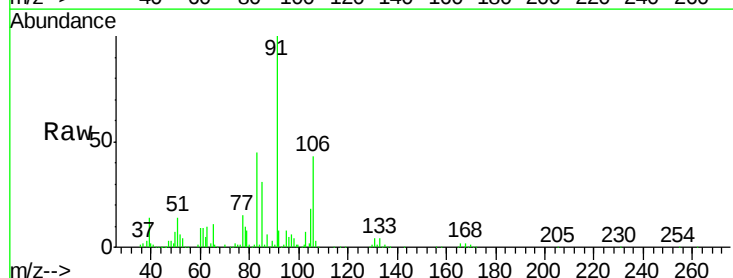
Manual Integrations
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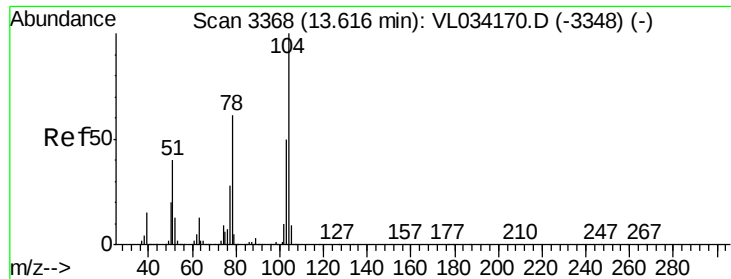
MMDadoda
9/20/2019 12:44:15 AM



#60
o-Xylene
Concen: 8.371 ppbv
RT: 13.78 min Scan# 3419
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion: 91 Resp: 2618492
Ion Ratio Lower Upper
91 100
106 41.9 21.2 63.6





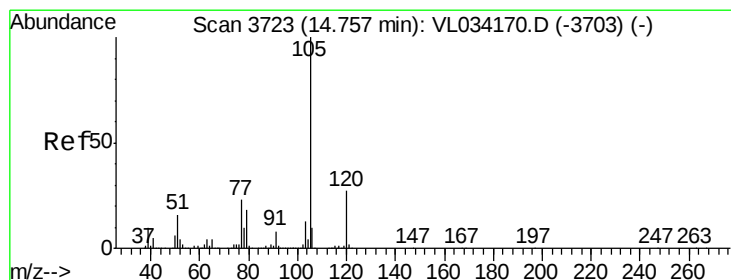
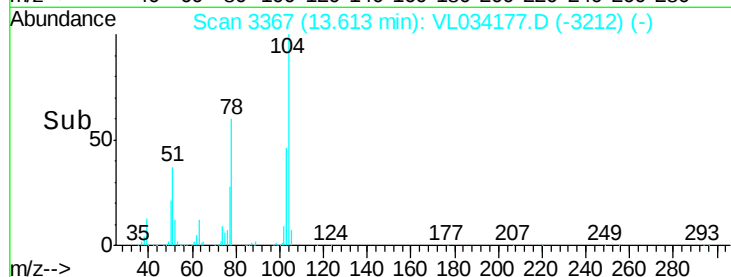
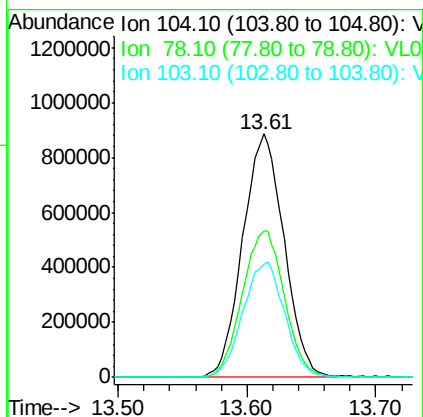
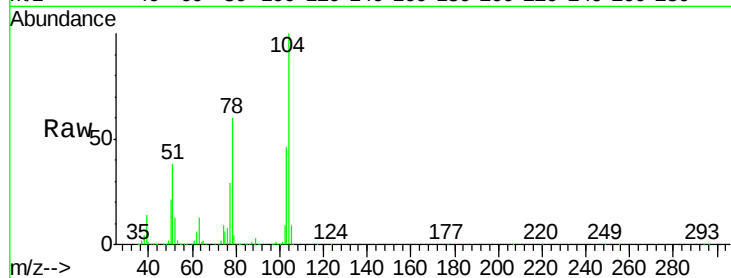
#61
Stvrene
Concen: 8.820 ppbv
RT: 13.61 min Scan# 3367
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL091719

Tot Ion	Ratio	Lower	Upper
104	100		
78	61.7	49.7	74.5
103	48.1	38.4	57.6

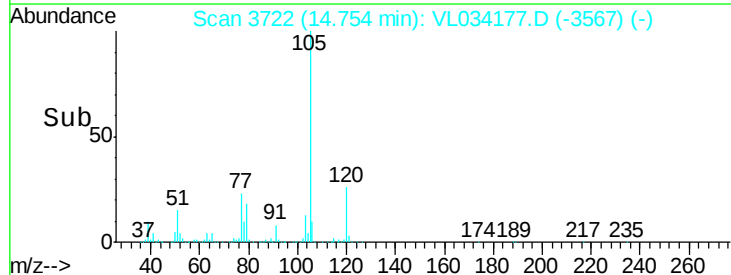
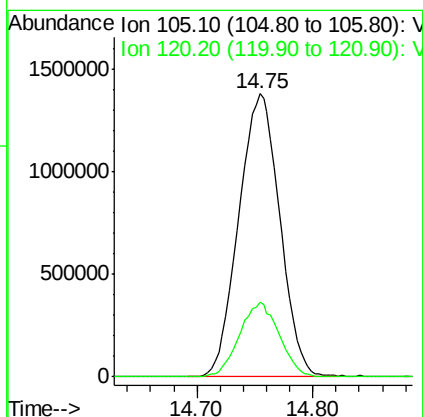
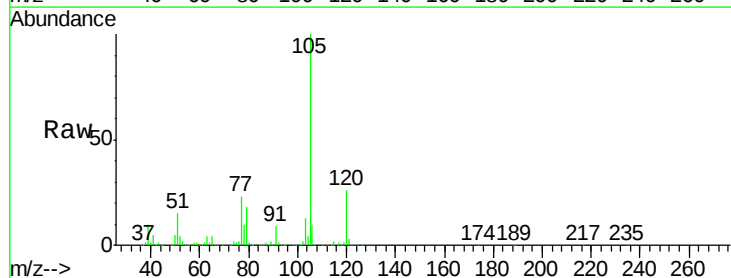
Manual Integrations
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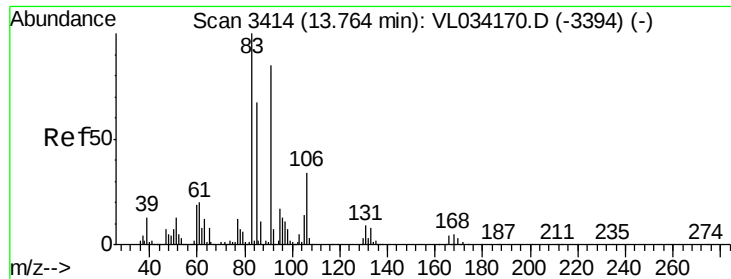
MMDadoda
9/20/2019 12:44:15 AM



#62
Isopropylbenzene
Concen: 8.403 ppbv
RT: 14.75 min Scan# 3722
Delta R.T. -0.00 min
Lab File: VL034177.D
Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.7	31.1





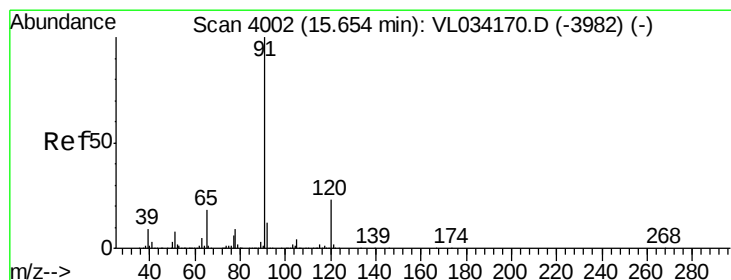
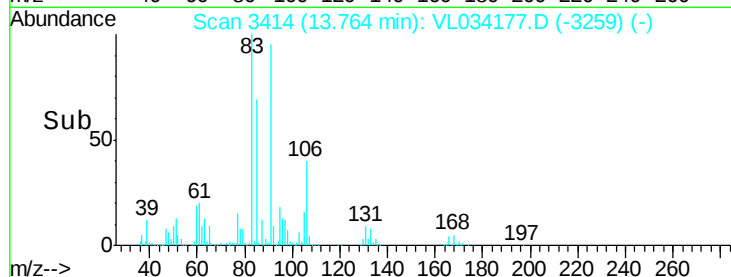
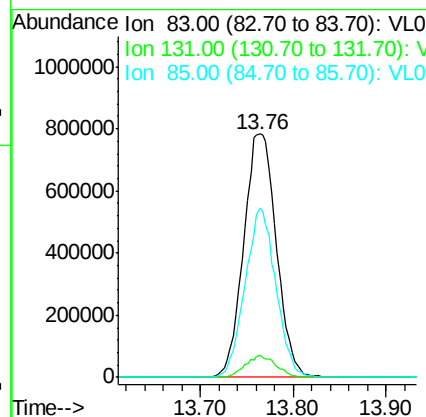
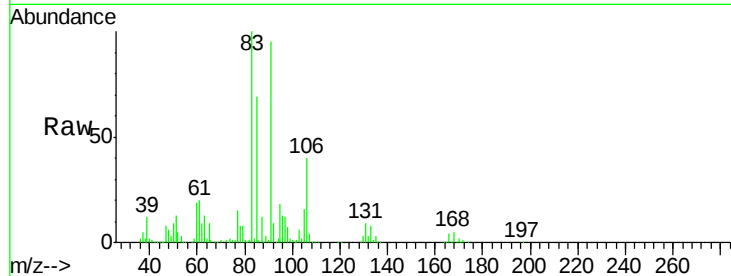
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.524 ppbv m
 RT: 13.76 min Scan# 3414
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	83	Resp	1929808
Ion Ratio	100	Lower	Upper
83	100		
131	8.5	4.3	12.8
85	65.4	32.8	98.4

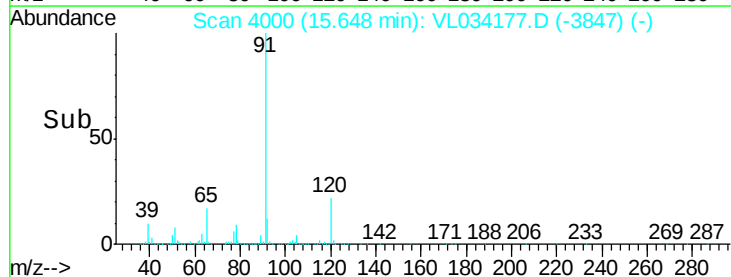
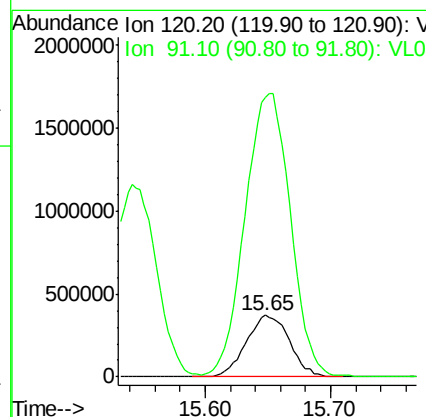
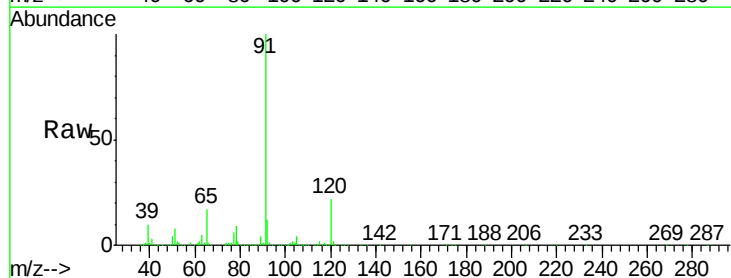
Manual Integrations
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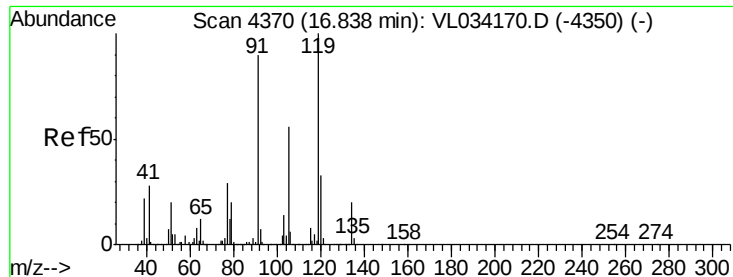
MMDadoda
 9/20/2019 12:44:15 AM



#64
 n-propylbenzene
 Concen: 8.688 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. -0.01 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	120	Resp	890078
Ion Ratio	100	Lower	Upper
120	100		
91	483.1	378.2	567.2





#65

tert-Butylbenzene

Concen: 8.197 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:119 Resp: 2900253

Ion Ratio Lower Upper

119 100

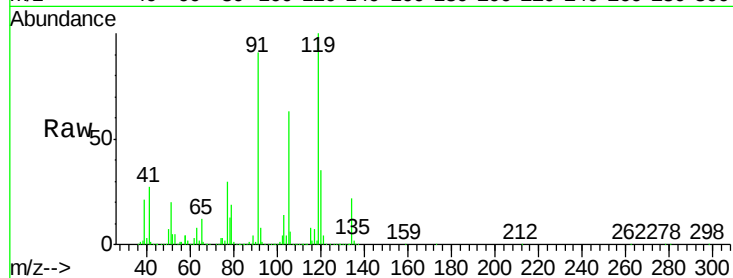
91 93.7 74.9 112.3

134 19.3 15.8 23.6

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MMDadoda

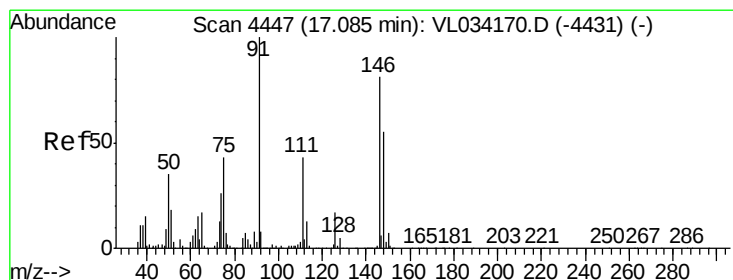
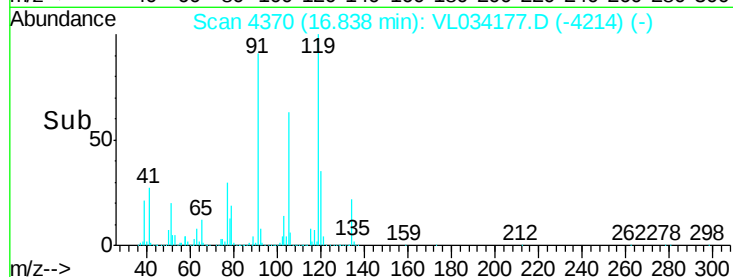
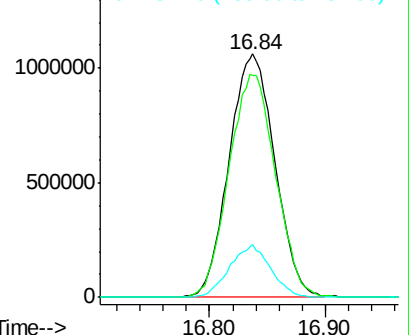
9/20/2019 12:44:15 AM



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: 11.841 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

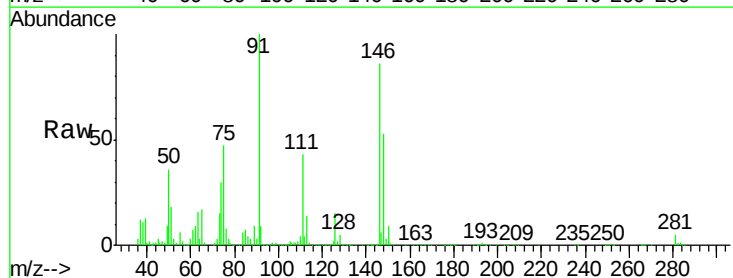
Tgt Ion: 91 Resp: 1482162

Ion Ratio Lower Upper

91 100

126 15.3 12.6 19.0

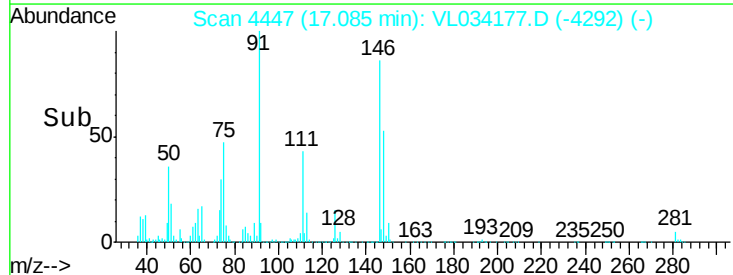
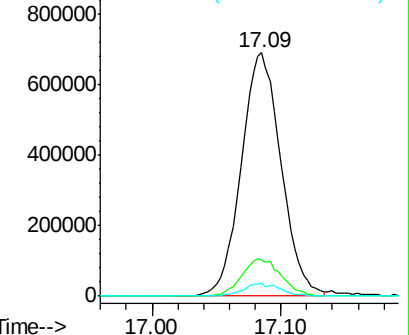
128 4.8 4.0 6.0

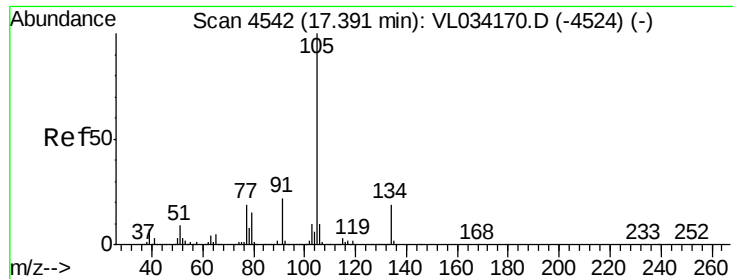


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.291 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:105 Resp: 4194804

Ion Ratio Lower Upper

105 100

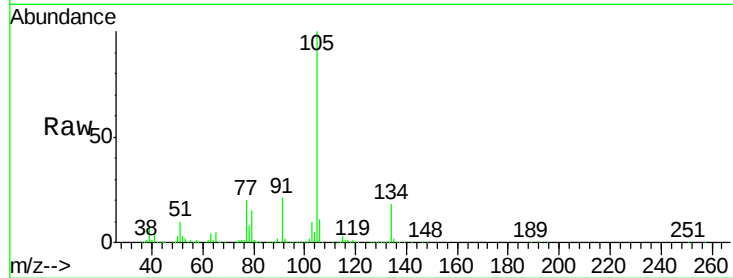
134 18.0 14.6 22.0

Manual Integrations

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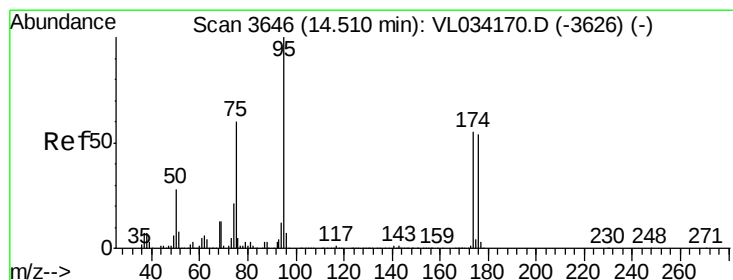
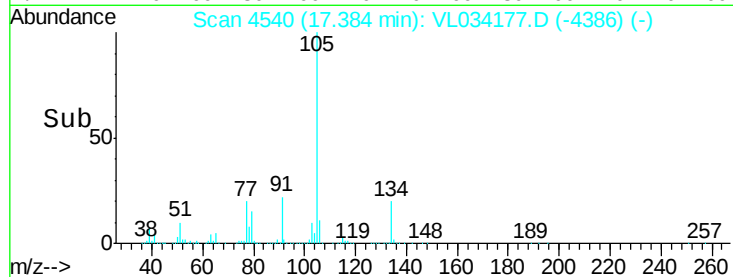
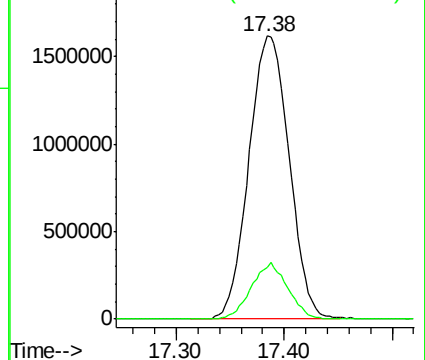
MMDadoda

9/20/2019 12:44:15 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.607 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. -0.01 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

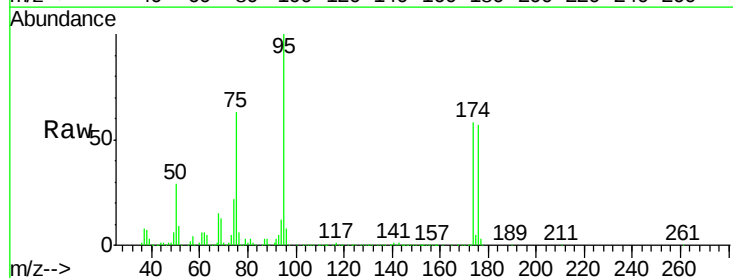
Tgt Ion: 95 Resp: 1953991

Ion Ratio Lower Upper

95 100

174 58.2 45.1 67.7

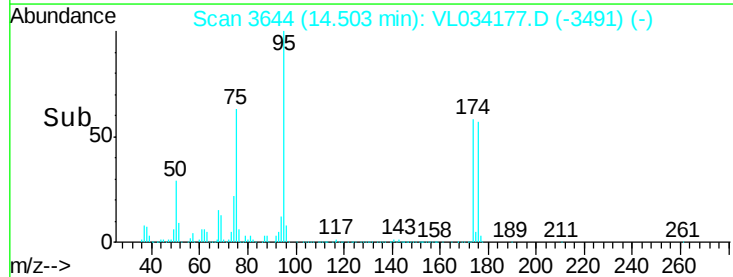
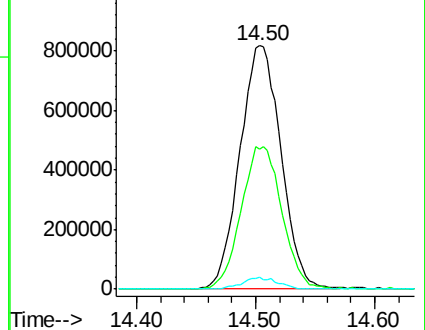
175 4.2 3.3 4.9

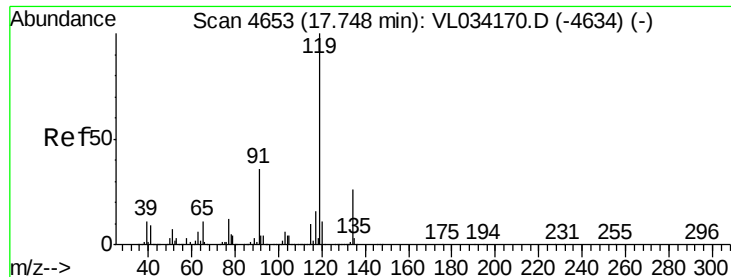


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 8.404 ppbv

RT: 17.74 min Scan# 4651

Delta R.T. -0.01 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion: 119 Resp: 3442932

Ion Ratio Lower Upper

119 100

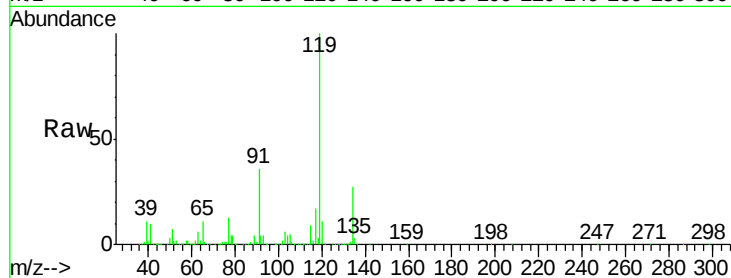
134 26.0 20.6 30.8

91 34.9 27.6 41.4

Manual Integrations
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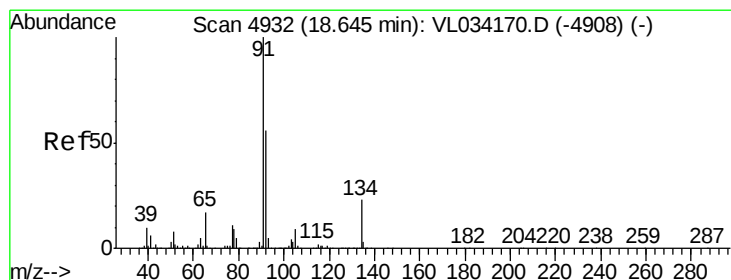
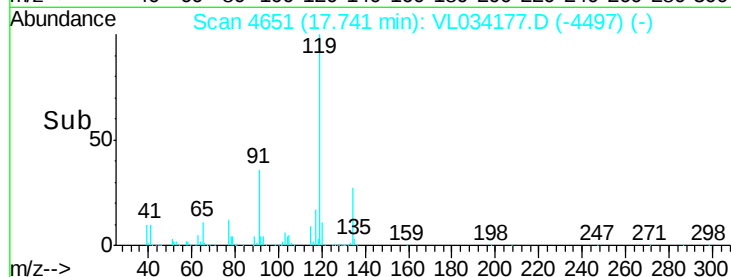
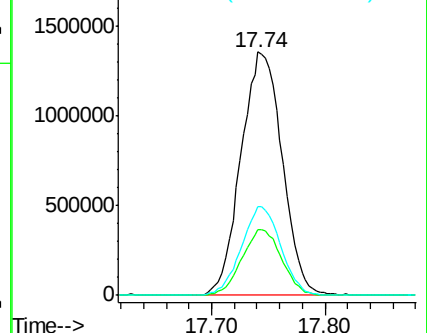
9/20/2019 12:44:15 AM



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: 8.318 ppbv

RT: 18.64 min Scan# 4932

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

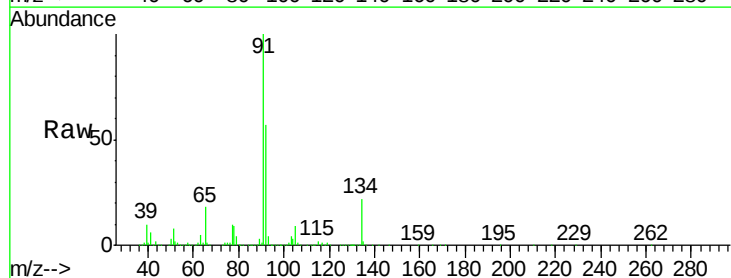
Tgt Ion: 91 Resp: 3968146

Ion Ratio Lower Upper

91 100

92 55.9 44.8 67.2

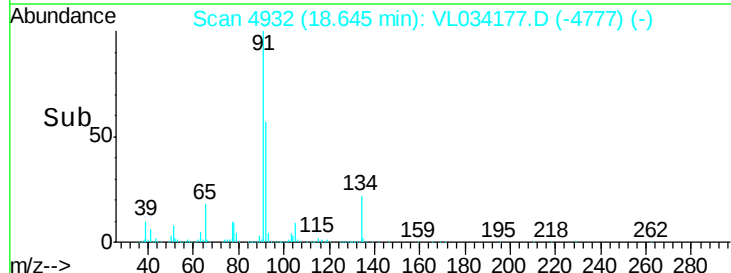
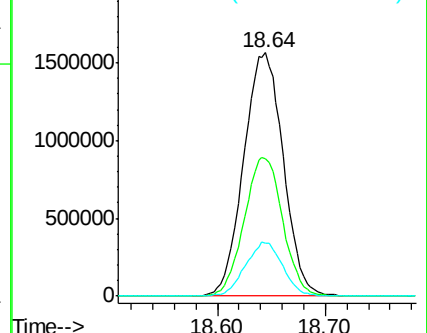
134 21.1 17.3 25.9

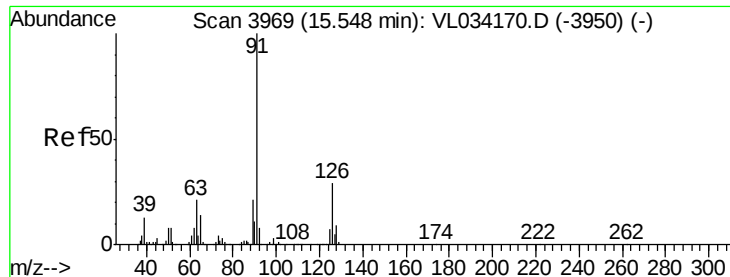


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





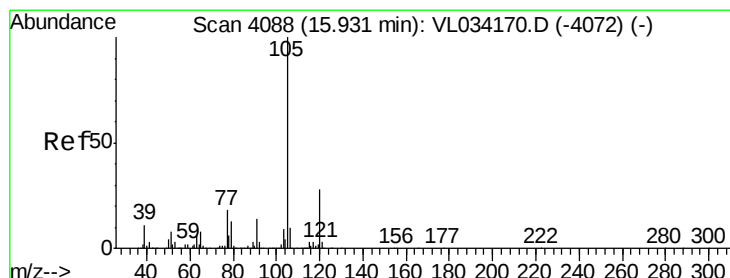
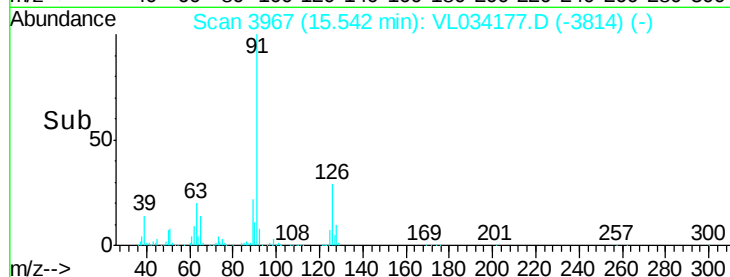
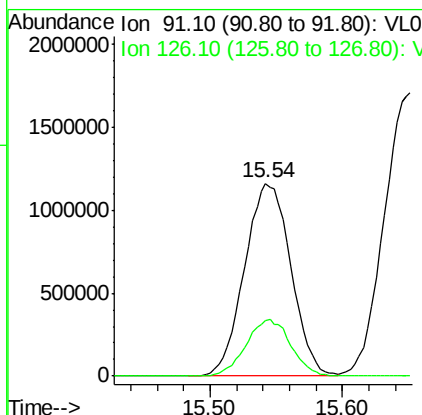
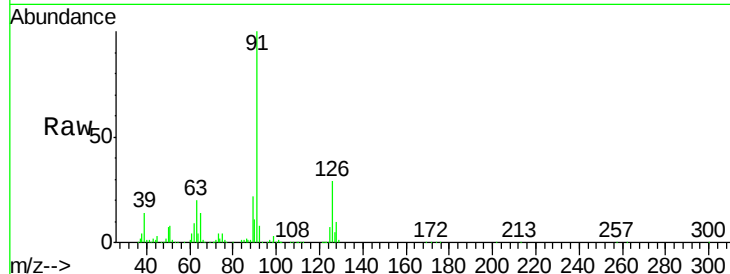
#71
 2-Chlorotoluene
 Concen: 8.550 ppbv
 RT: 15.54 min Scan# 3967
 Delta R.T. -0.01 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion: 91 Resp: 2828616
 Ion Ratio Lower Upper
 91 100
 126 28.4 11.2 45.0

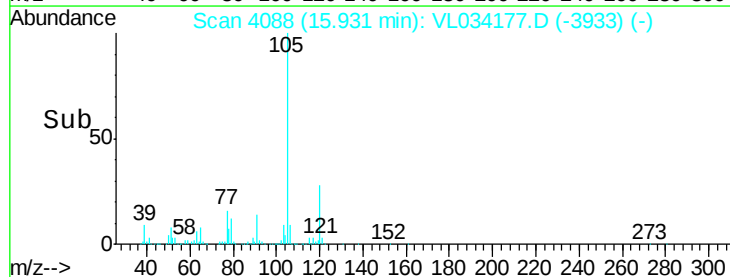
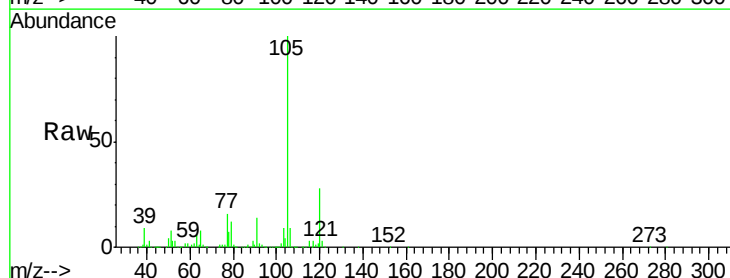
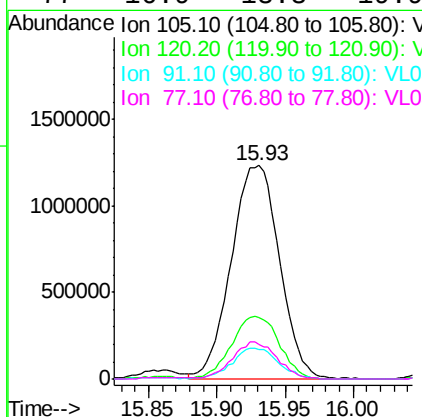
Manual Integrations
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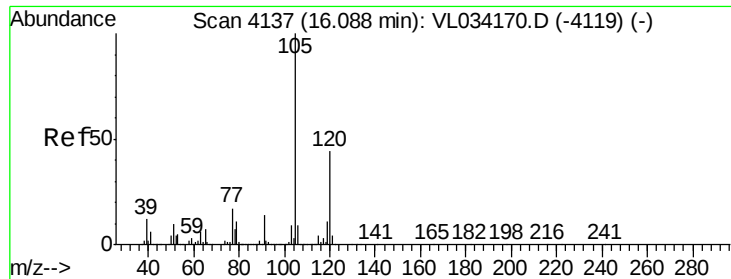
MMDadoda
 9/20/2019 12:44:15 AM



#72
 4-Ethyltoluene
 Concen: 8.538 ppbv
 RT: 15.93 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion:105 Resp: 3017454
 Ion Ratio Lower Upper
 105 100
 120 29.3 23.3 34.9
 91 13.9 11.4 17.2
 77 16.9 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 8.497 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:105 Resp: 2901015

Ion Ratio Lower Upper

105 100

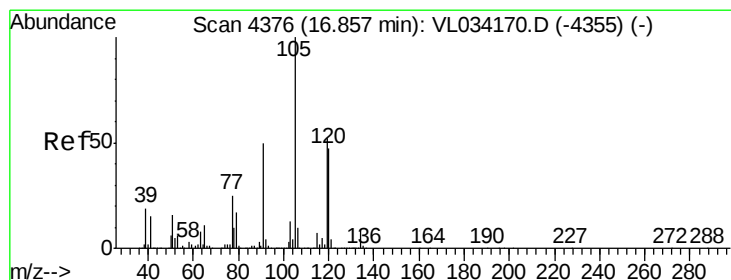
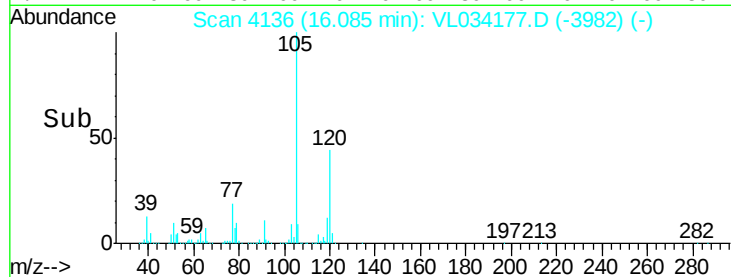
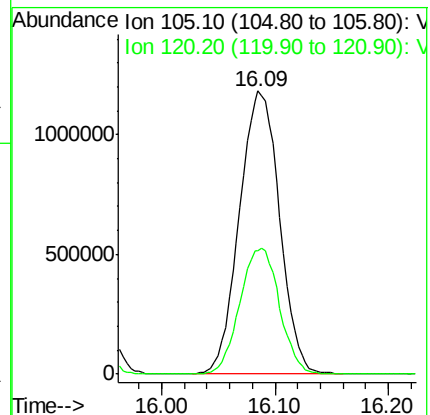
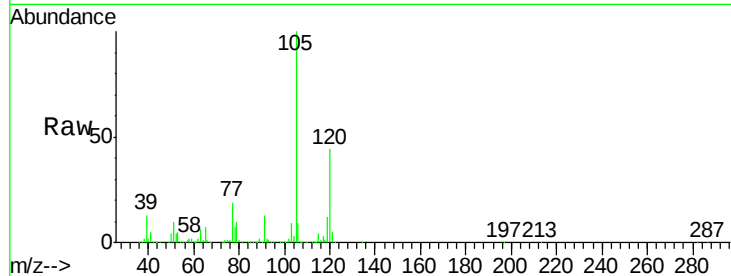
120 43.6 35.6 53.4

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 7.995 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tgt Ion:105 Resp: 2898527

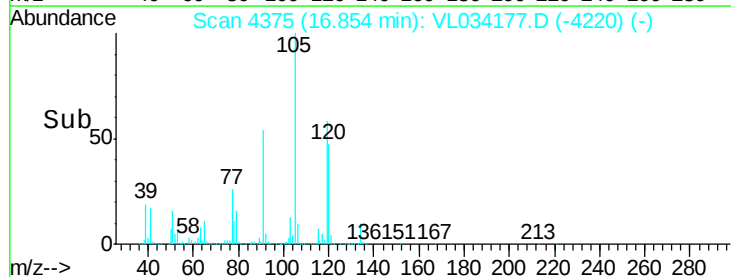
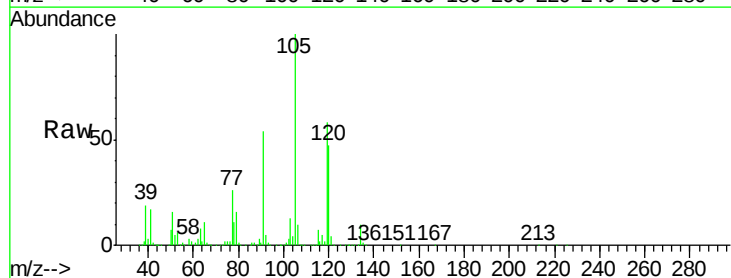
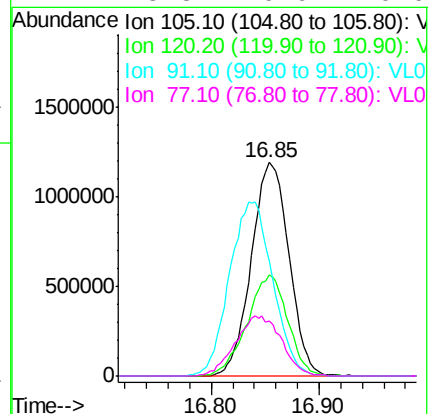
Ion Ratio Lower Upper

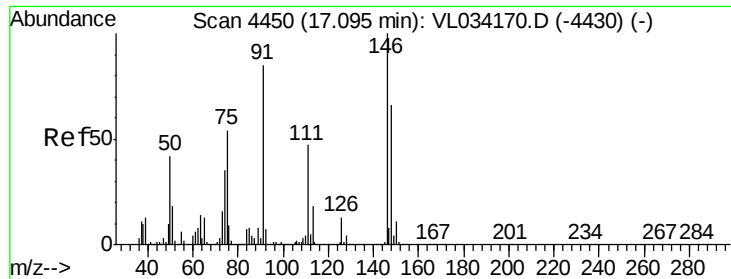
105 100

120 47.3 37.5 56.3

91 53.8 41.1 61.7

77 25.8 19.9 29.9





#75

1,3-Dichlorobenzene

Concen: 8.253 ppbv

RT: 17.09 min Scan# 4450

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL091719

Tot Ion:146 Resp: 1605181

Ion Ratio Lower Upper

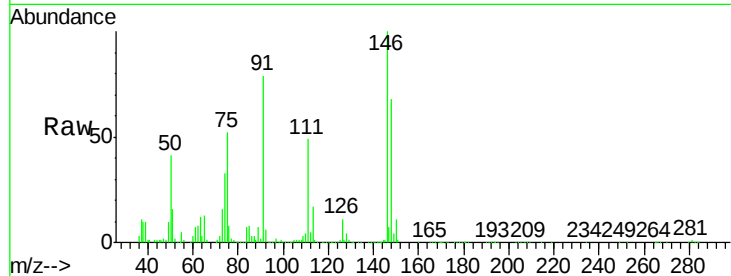
146 100

111 51.1 25.9 77.8

148 64.9 32.6 97.7

Manual Integrations
APPROVED

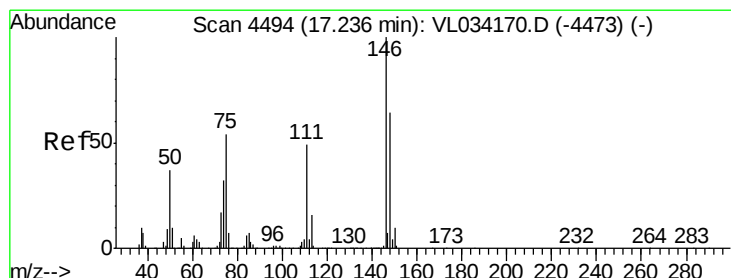
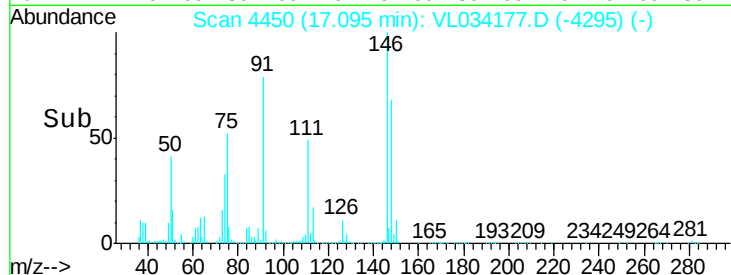
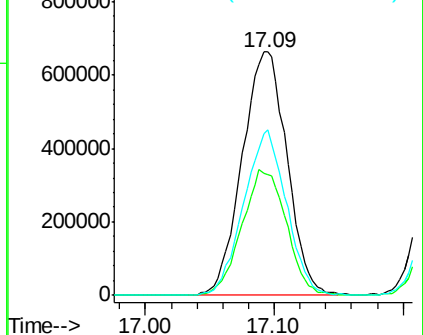
MMDadoda
9/20/2019 12:44:15 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.273 ppbv

RT: 17.24 min Scan# 4494

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

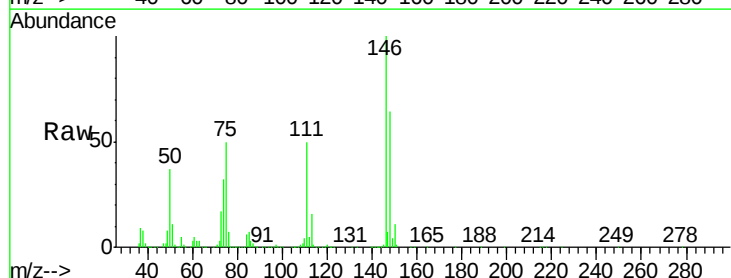
Tgt Ion:146 Resp: 1648004

Ion Ratio Lower Upper

146 100

111 49.0 24.6 74.0

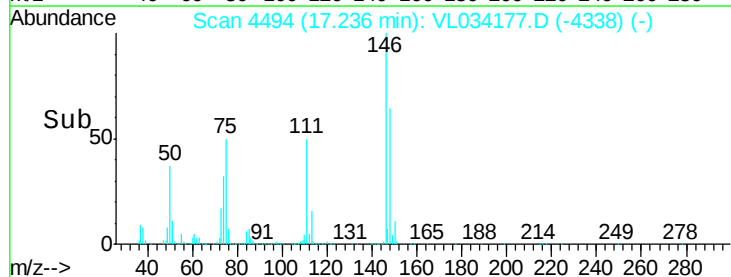
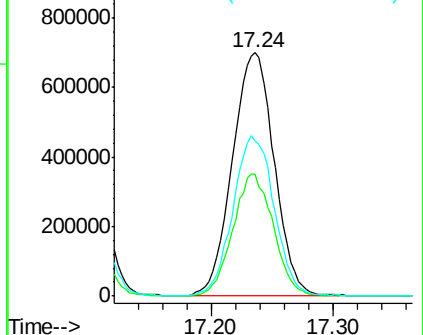
148 65.4 32.4 97.0

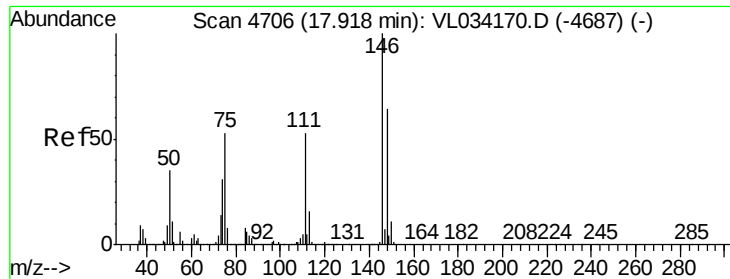


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





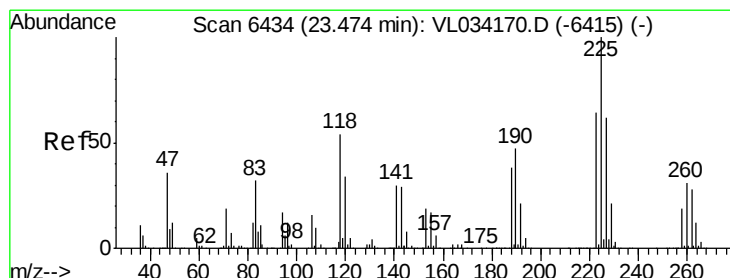
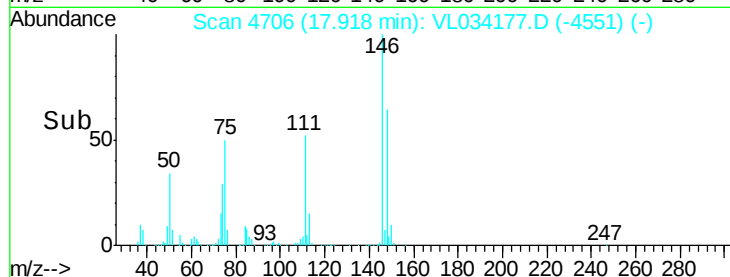
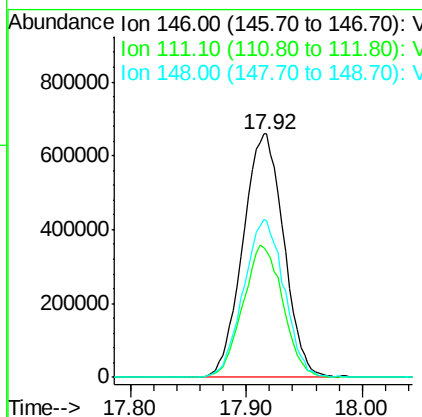
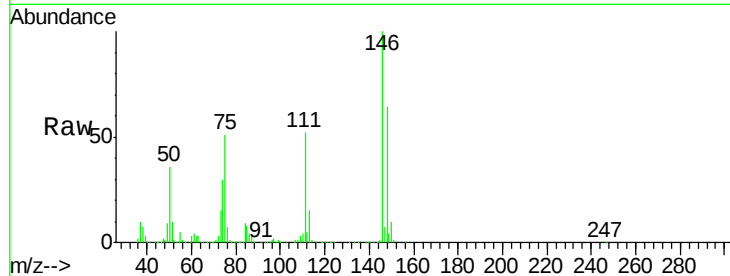
#77
 1,2-Dichlorobenzene
 Concen: 8.210 ppbv
 RT: 17.92 min Scan# 4706
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	Ratio	Lower	Upper
146	100		
111	53.1	26.1	78.3
148	64.8	31.9	95.9

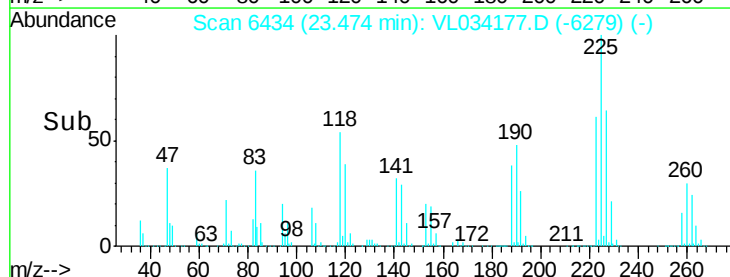
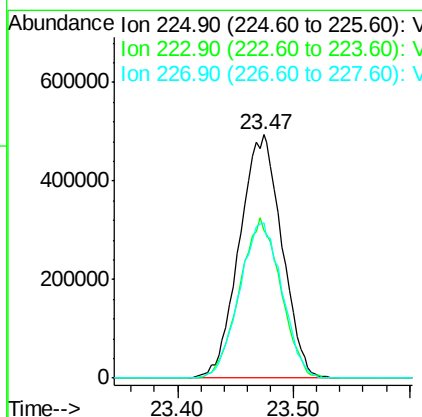
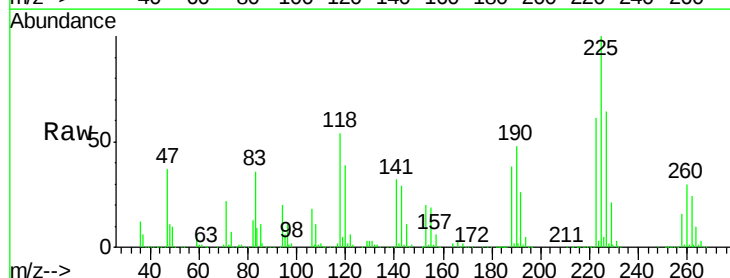
Manual Integrations
 APPROVED

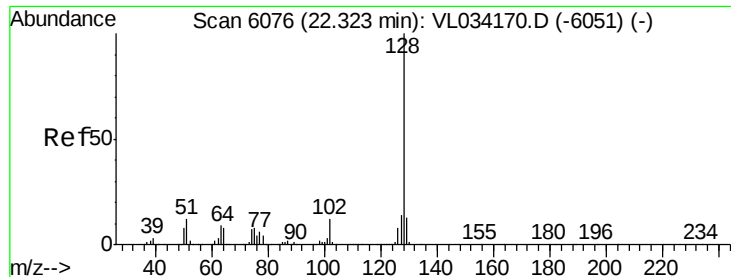
MMDadoda
 9/20/2019 12:44:15 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.615 ppbv
 RT: 23.47 min Scan# 6434
 Delta R.T. -0.00 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.7	77.5
227	64.2	52.1	78.1





#79

Naphthalene

Concen: 9.505 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Instrument :

MSVOA_L

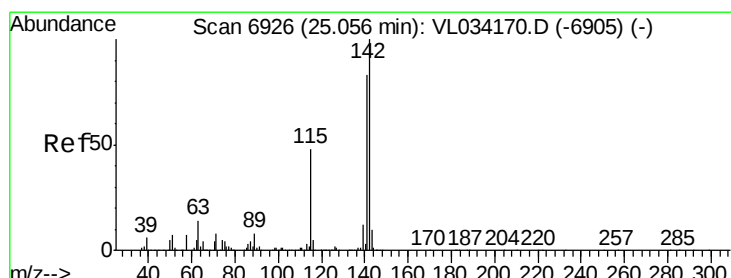
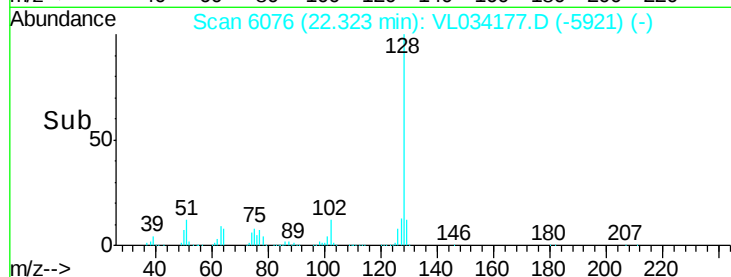
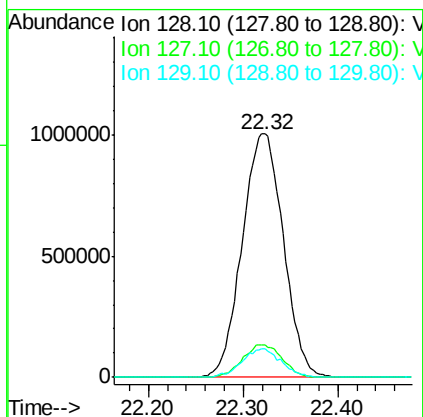
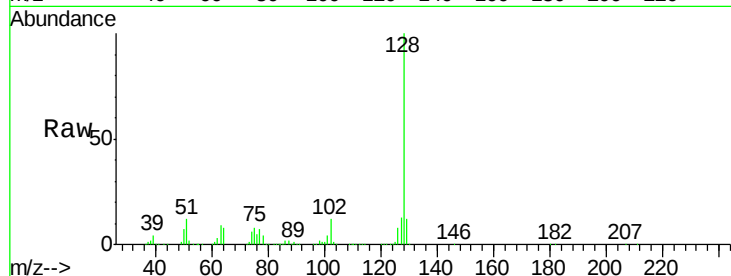
ClientSampleId :

ICVVL091719

Tot Ion:	128	Resp:	3033539
Ion	Ratio	Lower	Upper
128	100		
127	13.2	11.1	16.7
129	11.6	10.2	15.4

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#80

Naphthalene, 2-methyl-

Concen: 8.752 ppbv

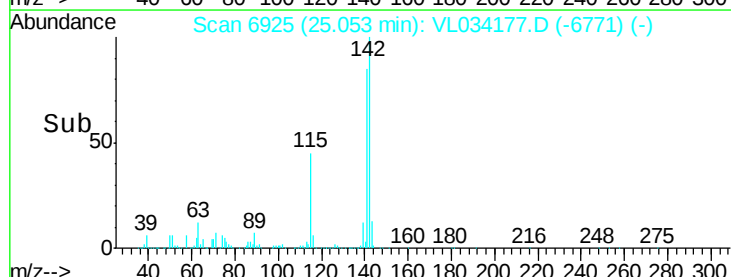
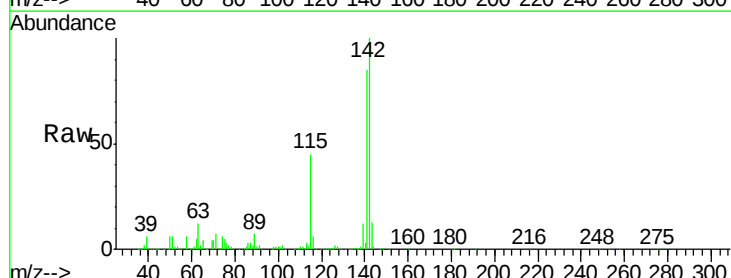
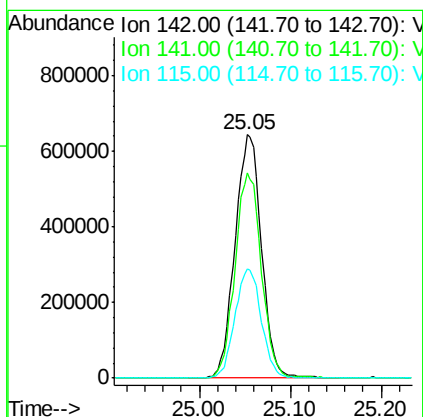
RT: 25.05 min Scan# 6925

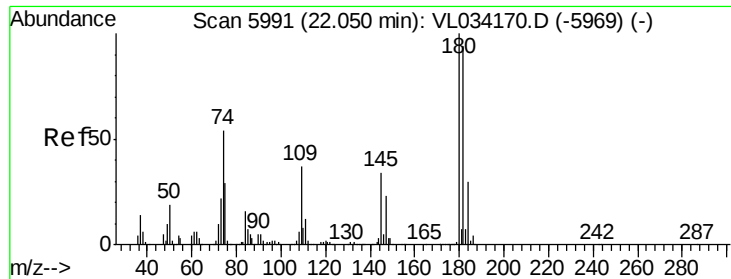
Delta R.T. -0.00 min

Lab File: VL034177.D

Acq: 17 Sep 2019 8:45

Tgt Ion:	142	Resp:	1298987
Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.6	101.4
115	45.1	36.9	55.3





#81
 1,2,4-Trichlorobenzene
 Concen: 8.357 ppbv
 RT: 22.04 min Scan# 5989
 Delta R.T. -0.01 min
 Lab File: VL034177.D
 Acq: 17 Sep 2019 8:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL091719

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.4	116.2
184	31.3	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:15 AM

