

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091719\
 Data File : VL034181.D
 Acq On : 17 Sep 2019 12:52
 Operator : SY/AP
 Sample : VL0917ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0917ABS01

Manual Integrations
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MMDadoda
 9/20/2019 12:44:07 AM

Quant Time: Sep 19 07:47:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 19
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1203472	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2108746	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2255059	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1899766	9.70	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1620263	9.115	ppbv 97
3) Chlorodifluoromethane	2.97	51	1335363	9.463	ppbv 100
4) Chloromethane	3.13	50	745032	8.985	ppbv 99
5) Vinyl Chloride	3.25	62	652158	8.606	ppbv 97
6) Bromomethane	3.47	94	344201	9.735	ppbv 92
7) Chloroethane	3.55	64	239674	9.049	ppbv 99
8) Dichlorotetrafluoroethane	3.18	85	1386899	8.840	ppbv 99
9) Propene	3.00	41	621103	8.921	ppbv 99
10) Heptane	8.18	43	1643431	9.058	ppbv 100
11) Trichlorofluoromethane	3.95	101	1459443	9.019	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.50	101	963342	9.097	ppbv 99
13) Ethanol	3.61	45	169655	10.064	ppbv 93
14) Bromoethene	3.74	108	401199	9.266	ppbv 98
15) Acetone	3.85	43	1385081	8.587	ppbv 99
16) 1,3-Butadiene	3.32	39	659325	9.366	ppbv 98
17) tert-Butyl alcohol	4.30	59	1097043	10.734	ppbv 98
18) 1,1-Dichloroethene	4.29	96	442360	9.577	ppbv 94
19) Isopropyl Alcohol	3.97	45	1037402	10.459	ppbv 100
20) Methylene Chloride	4.36	84	404201	8.691	ppbv 97
21) Allyl Chloride	4.42	41	879865	9.658	ppbv 100
22) trans-1,2-Dichloroethene	4.90	96	434115	9.394	ppbv 97
23) Vinyl Acetate	5.10	43	2277662	9.583	ppbv 99
24) 1,1-Dichloroethane	5.03	63	1425774	8.909	ppbv 100
25) Ethyl Acetate	5.71	43	2585653	8.477	ppbv 100
26) Hexane	5.72	57	1115401	8.791	ppbv 98
27) Carbon Disulfide	4.56	76	1195645	10.218	ppbv 100
28) Methyl tert-Butyl Ether	5.05	73	1720406	9.130	ppbv 100
29) Chloroform	5.79	83	1632133	9.002	ppbv 100
30) Cyclohexane	7.18	84	846136	9.237	ppbv 99
31) cis-1,2-Dichloroethene	5.58	61	1202008	9.293	ppbv 99
32) 1,1,1-Trichloroethane	6.55	97	1562414	8.935	ppbv 99
34) 2-Butanone	5.27	43	1860682	8.642	ppbv 99
35) Carbon Tetrachloride	7.07	117	1552131	8.860	ppbv 99
36) Benzene	6.94	78	2031721	8.724	ppbv 100
37) 1,2-Dichloroethane	6.35	62	1474533	8.901	ppbv 100
38) Trichloroethene	7.89	130	686783	8.253	ppbv 98
39) 1,2-Dichloropropane	7.67	63	912295	8.718	ppbv 97
40) 1,4-Dioxane	7.89	88	316975	9.360	ppbv # 91
41) Tetrahydrofuran	6.08	42	1098755	9.060	ppbv 99
42) Bromodichloromethane	7.85	83	1809413	9.101	ppbv 99
43) Methyl Methacrylate	8.07	69	925209	9.617	ppbv 98

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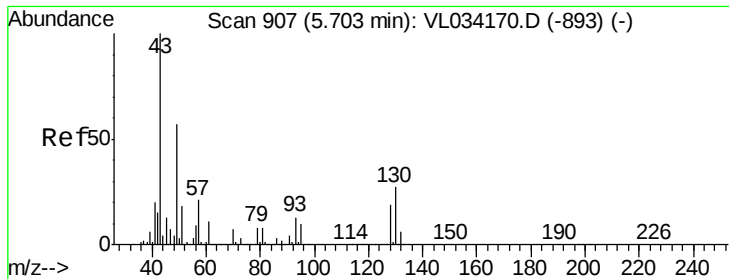
Manual Integrations
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 9/20/2019 12:44:07 AM

Quant Time: Sep 19 07:47:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3785606	8.443	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1153717	10.142	ppbv	99
46) cis-1,3-Dichloropropene	8.76	75	1327470	9.701	ppbv	95
47) 1,1,2-Trichloroethane	9.55	97	837309	8.911	ppbv	96
48) Dibromochloromethane	10.38	129	1361527	9.142	ppbv	99
49) Bromoform	13.12	173	1169022	9.700	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2725820	8.699	ppbv	99
51) 2-Hexanone	10.20	43	2387170	9.077	ppbv	100
52) Tetrachloroethene	11.30	164	629887	8.186	ppbv	96
53) Toluene	9.87	91	2279265	8.955	ppbv	99
54) 1,2-Dibromoethane	10.68	107	1284222	9.190	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	911172	9.060	ppbv #	58
57) Chlorobenzene	12.23	112	1639041	8.348	ppbv	97
58) Ethyl Benzene	12.79	91	3132801	8.610	ppbv	99
59) m/p-Xylene	13.06	91	5113686m	16.968	ppbv	
60) o-Xylene	13.78	91	2551772	8.468	ppbv	99
61) Styrene	13.61	104	1929274	8.938	ppbv	99
62) Isopropylbenzene	14.75	105	3317202	8.503	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.76	83	1885339	7.630	ppbv	100
64) n-propylbenzene	15.65	120	860212	8.716	ppbv	94
65) tert-Butylbenzene	16.83	119	2850908	8.364	ppbv	100
66) Benzyl Chloride	17.09	91	1424083	11.809	ppbv	99
67) sec-Butylbenzene	17.38	105	4103262	8.418	ppbv	99
69) p-Isopropyltoluene	17.74	119	3352040	8.493	ppbv	100
70) n-Butylbenzene	18.64	91	3861164	8.402	ppbv	99
71) 2-Chlorotoluene	15.55	91	2775485	8.708	ppbv	99
72) 4-Ethyltoluene	15.93	105	2936599	8.625	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	2811230	8.547	ppbv	99
74) 1,2,4-Trimethylbenzene	16.86	105	2872670	8.225	ppbv	93
75) 1,3-Dichlorobenzene	17.09	146	1565509	8.355	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	1605026	8.364	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1577030	8.315	ppbv	100
78) Hexachloro-1,3-Butadiene	23.47	225	1204234m	9.586	ppbv	
79) Naphthalene	22.32	128	2907426	9.456	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	1230275	8.604	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	1427767	8.383	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 906

Delta R.T. -0.00 min

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Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 49 Resp: 1203472

Ion Ratio Lower Upper

49 100

128 35.0 17.6 52.9

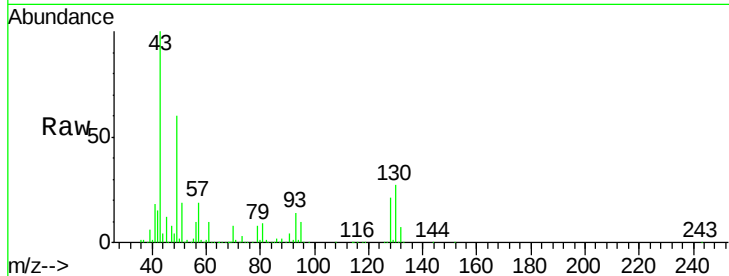
130 45.0 22.3 66.9

Manual Integrations

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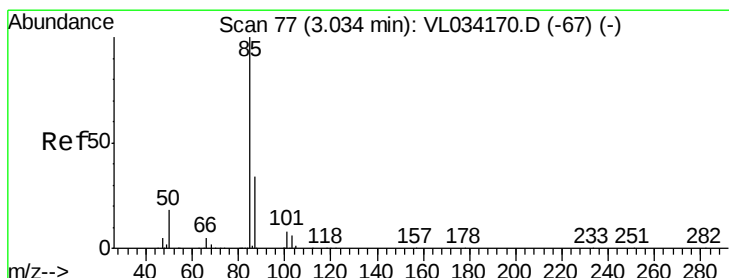
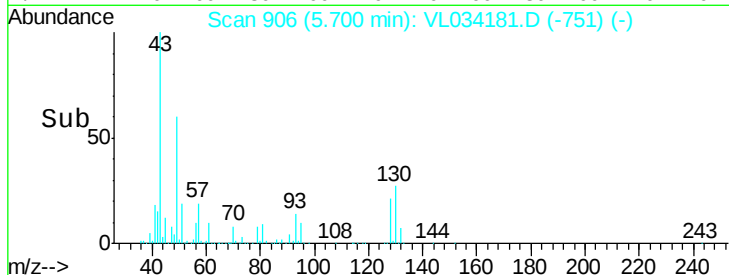
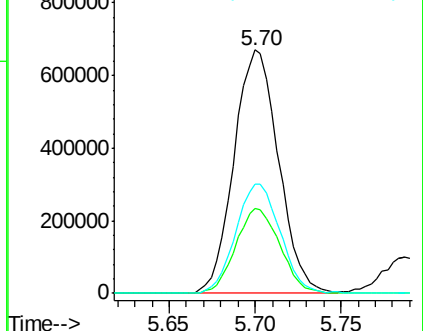
9/20/2019 12:44:07 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.115 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034181.D

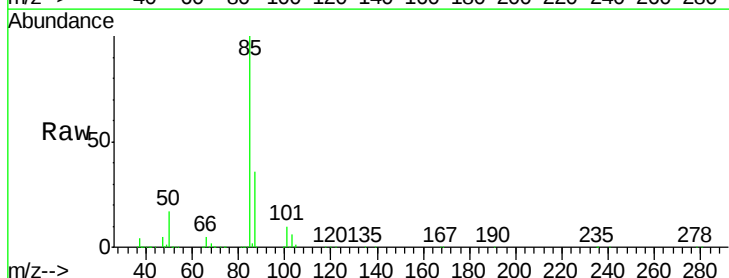
Acq: 17 Sep 2019 12:52

Tgt Ion: 85 Resp: 1620263

Ion Ratio Lower Upper

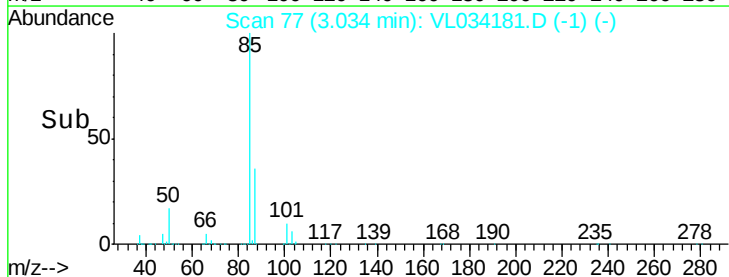
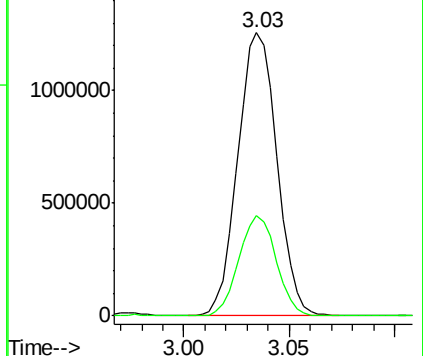
85 100

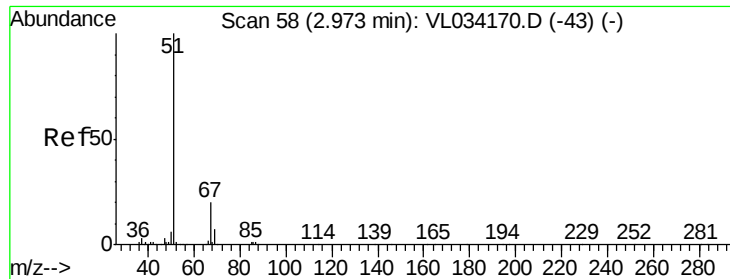
87 35.6 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.463 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 51 Resp: 1335363

Ion Ratio Lower Upper

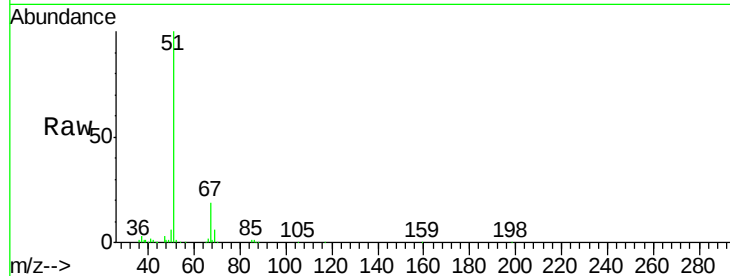
51 100

67 18.4 14.8 22.2

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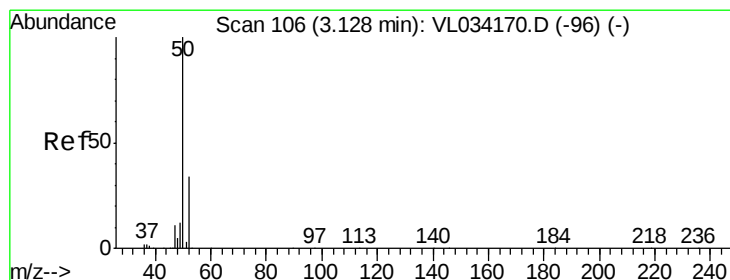
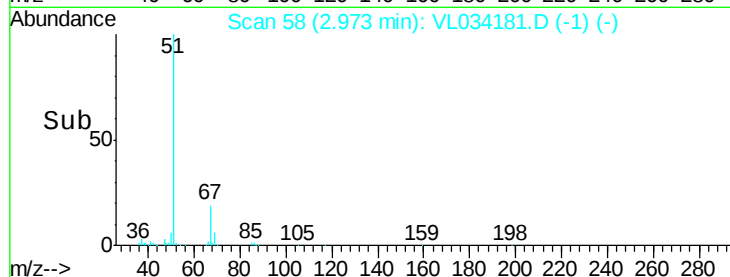
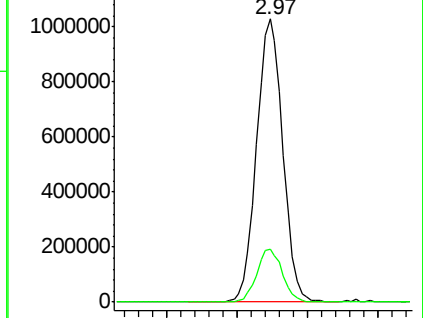
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.985 ppbv

RT: 3.13 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL034181.D

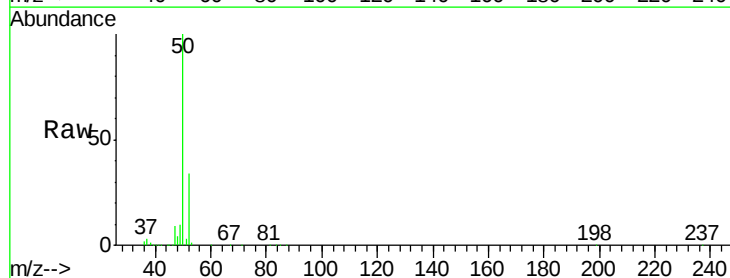
Acq: 17 Sep 2019 12:52

Tgt Ion: 50 Resp: 745032

Ion Ratio Lower Upper

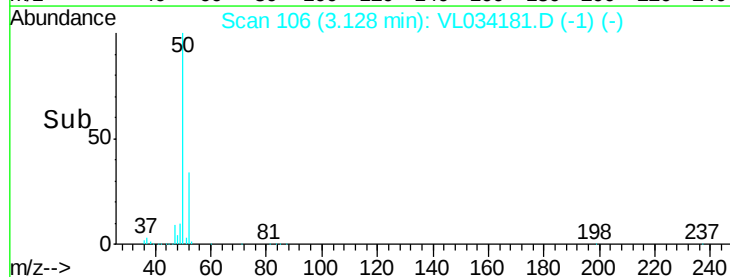
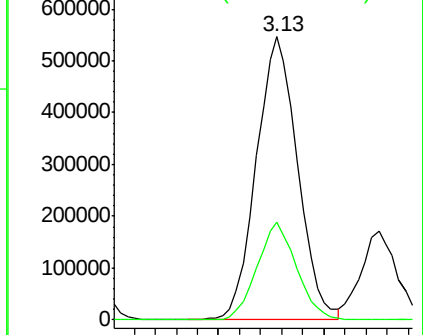
50 100

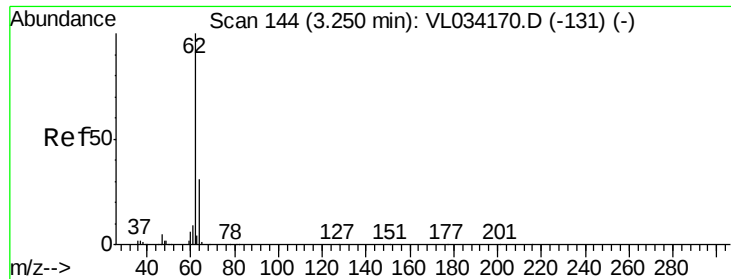
52 34.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.606 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleID :

VL0917ABS01

Tot Ion: 62 Resp: 652158

Ion Ratio Lower Upper

62 100

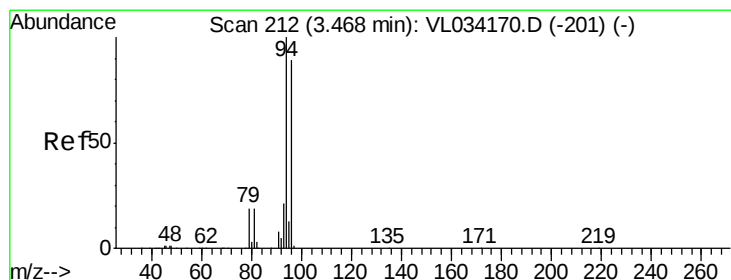
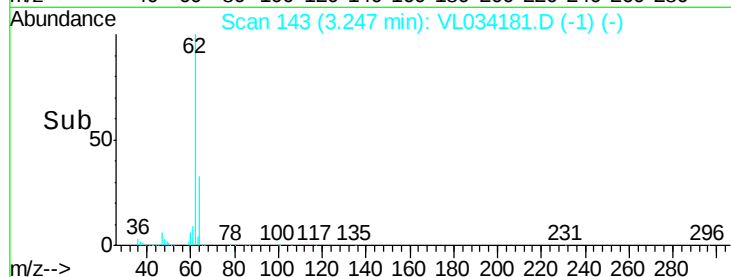
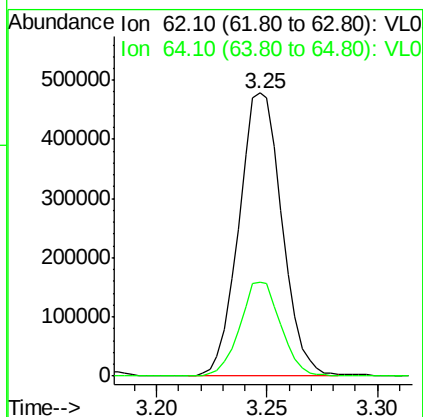
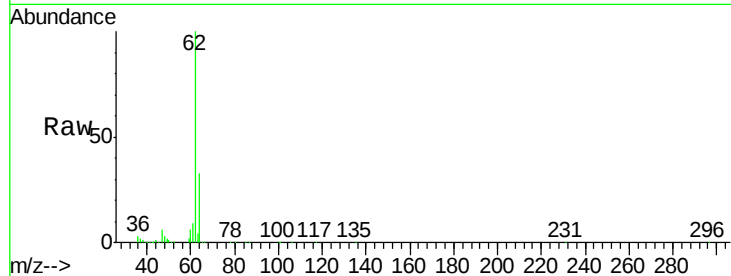
64 33.2 25.2 37.8

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#6

Bromomethane

Concen: 9.735 ppbv

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034181.D

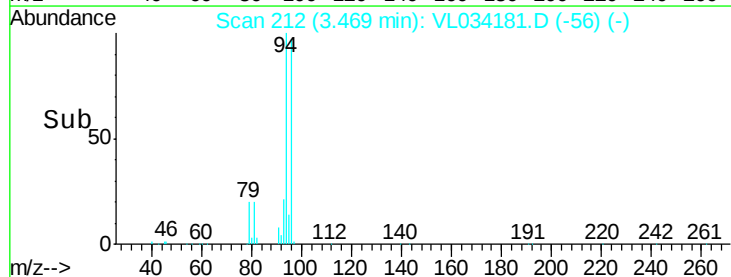
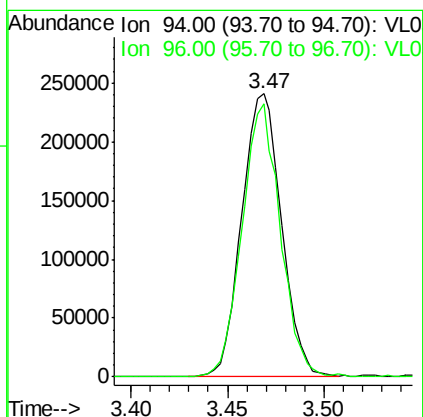
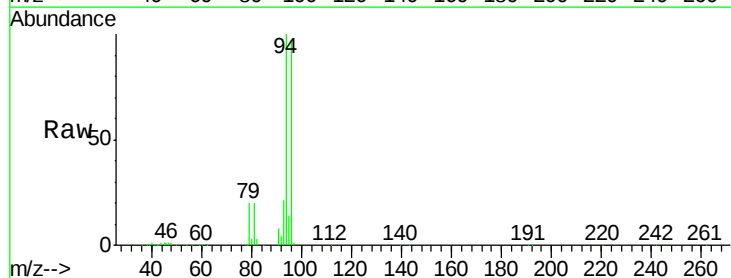
Acq: 17 Sep 2019 12:52

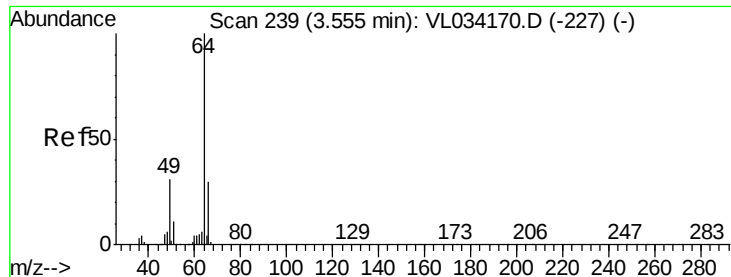
Tgt Ion: 94 Resp: 344201

Ion Ratio Lower Upper

94 100

96 96.7 71.3 106.9





#7

Chloroethane

Concen: 9.049 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 64 Resp: 239674

Ion Ratio Lower Upper

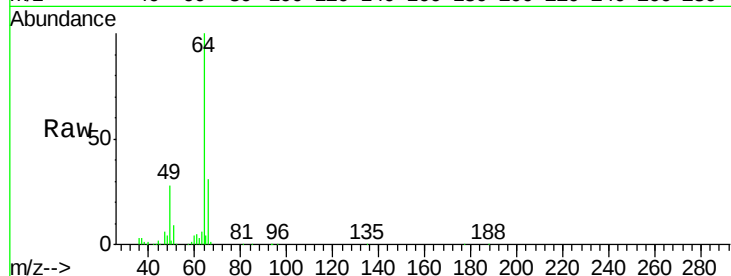
64 100

66 31.0 24.2 36.4

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.55

200000

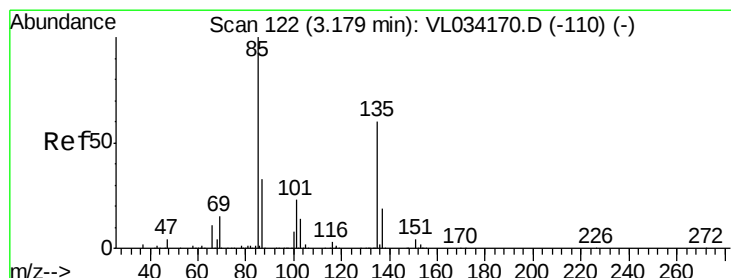
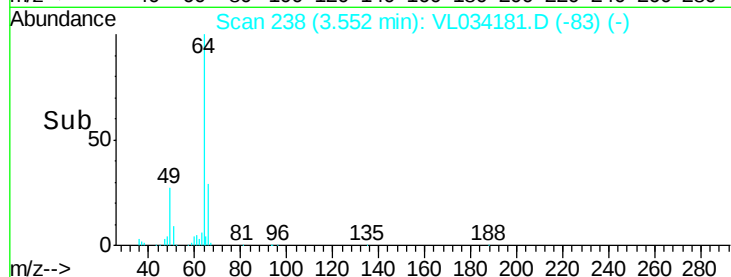
150000

100000

50000

0

Time--> 3.50 3.55 3.60



#8

Dichlorotetrafluoroethane

Concen: 8.840 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL034181.D

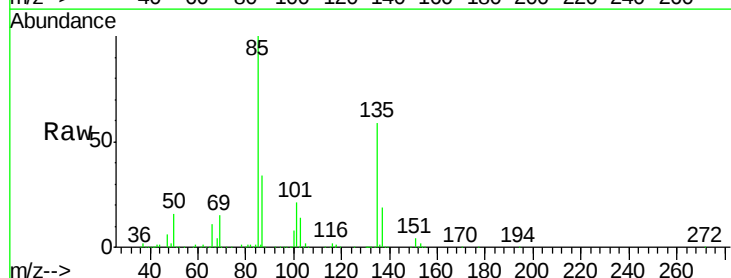
Acq: 17 Sep 2019 12:52

Tgt Ion: 85 Resp: 1386899

Ion Ratio Lower Upper

85 100

135 58.0 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

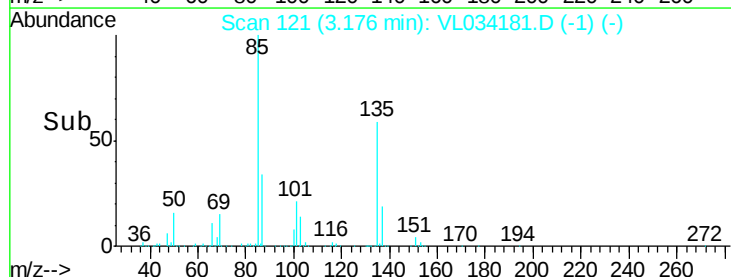
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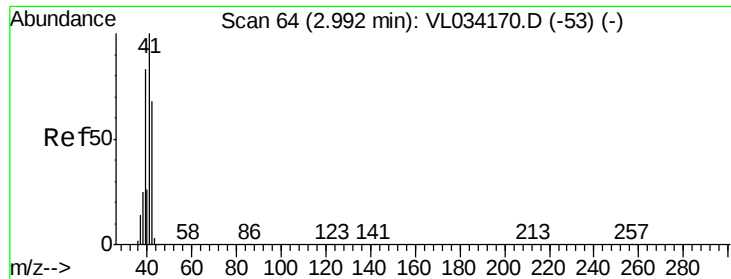
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200000

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Time--> 3.10 3.15 3.20 3.25





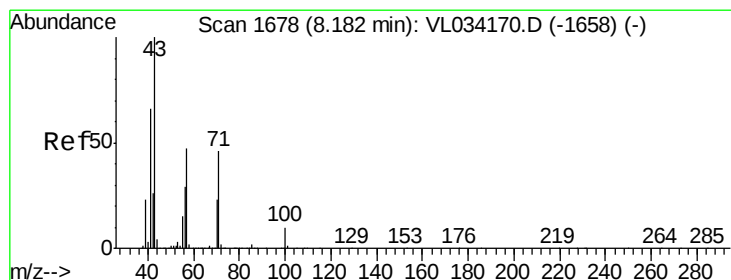
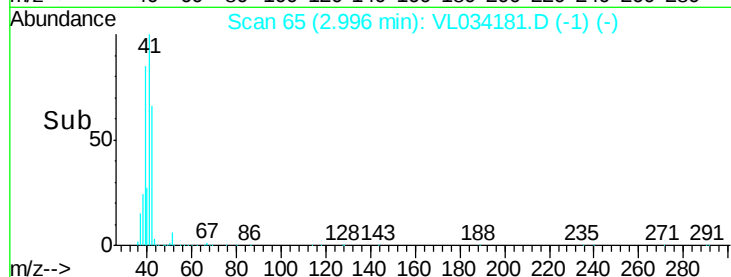
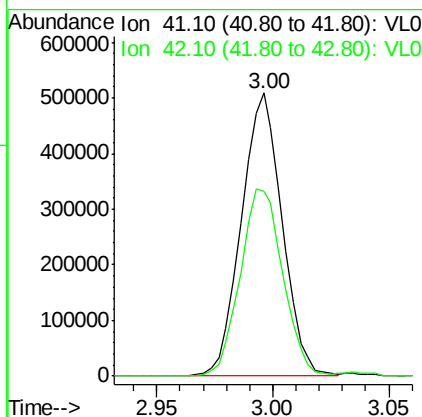
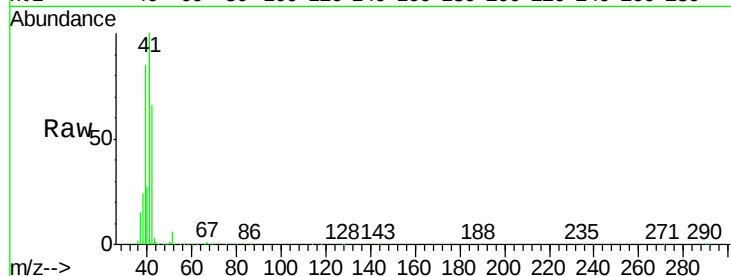
#9
 Propene
 Concen: 8.921 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion: 41 Resp: 621103
 Ion Ratio Lower Upper
 41 100
 42 70.5 55.8 83.6

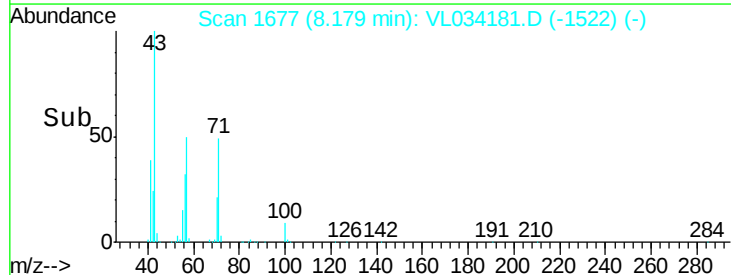
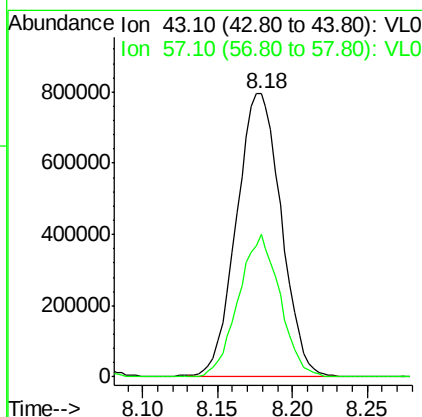
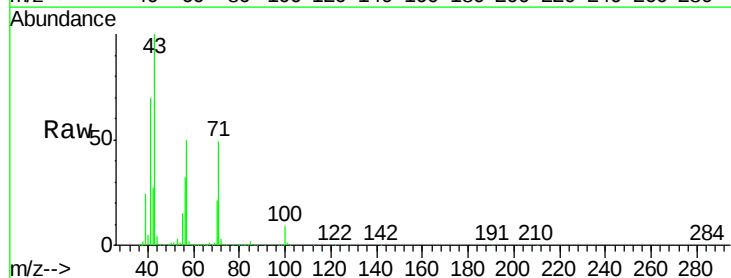
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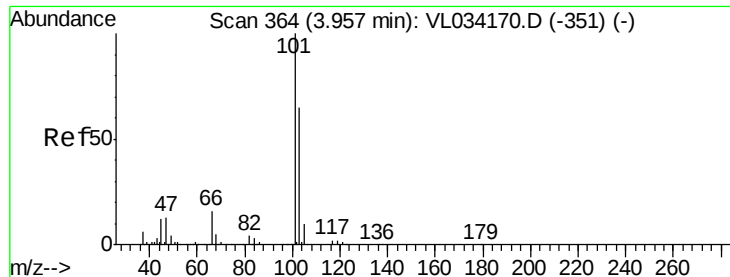
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#10
 Heptane
 Concen: 9.058 ppbv
 RT: 8.18 min Scan# 1677
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion: 43 Resp: 1643431
 Ion Ratio Lower Upper
 43 100
 57 46.9 37.5 56.3





#11

Trichlorofluoromethane

Concen: 9.019 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:101 Resp: 1459443

Ion Ratio Lower Upper

101 100

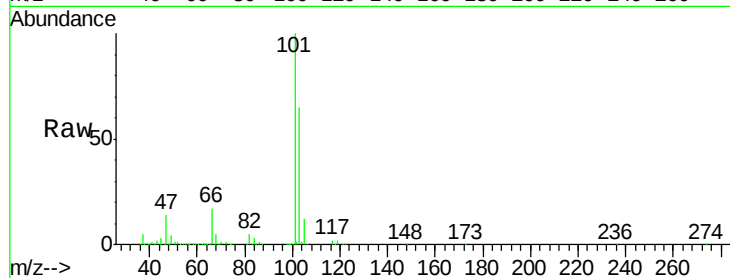
103 64.7 52.1 78.1

Manual Integrations

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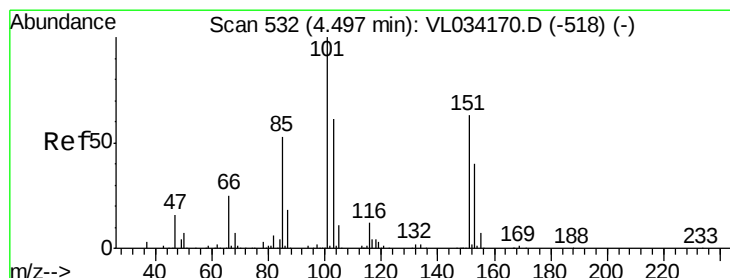
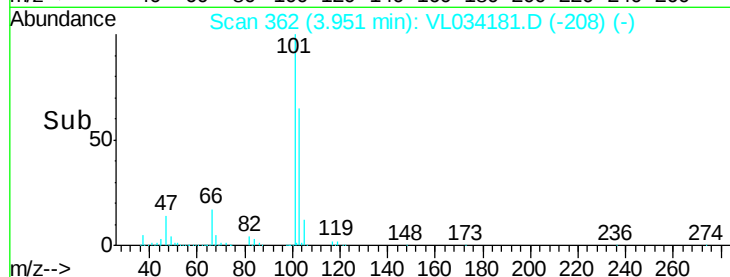
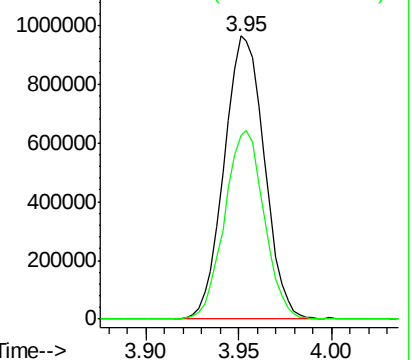
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.097 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL034181.D

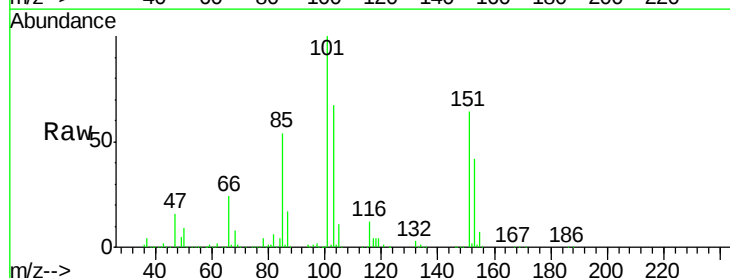
Acq: 17 Sep 2019 12:52

Tgt Ion:101 Resp: 963342

Ion Ratio Lower Upper

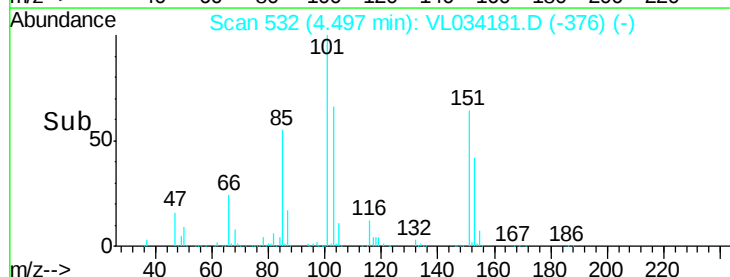
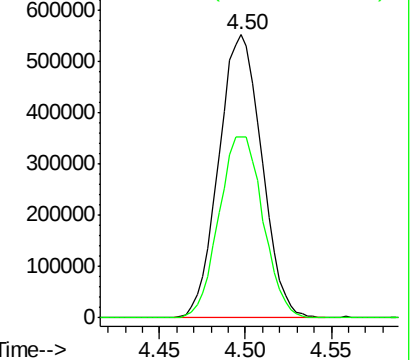
101 100

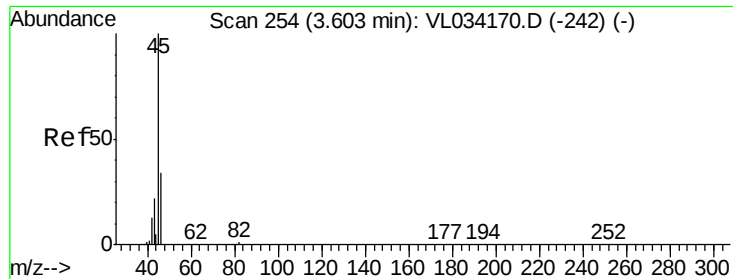
151 65.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 10.064 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampled :

VL0917ABS01

Tot Ion: 45 Resp: 169655

Ion Ratio Lower Upper

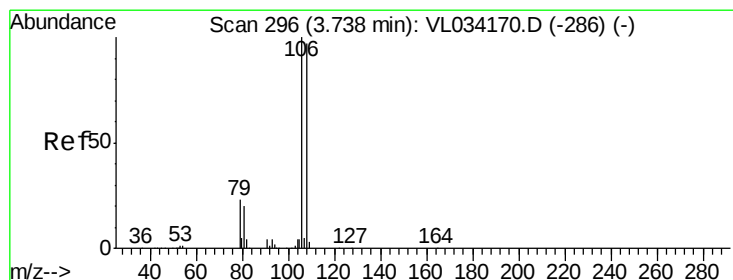
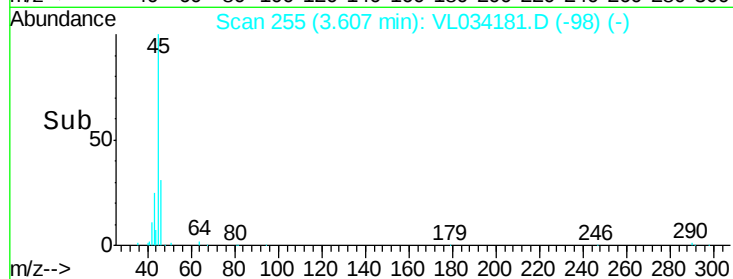
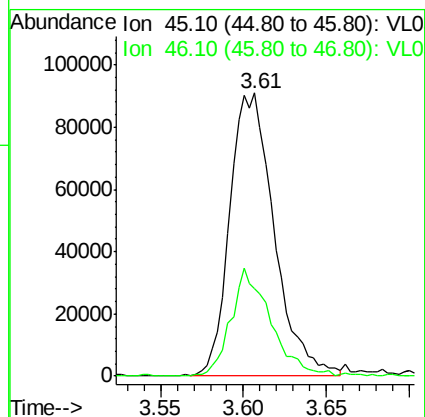
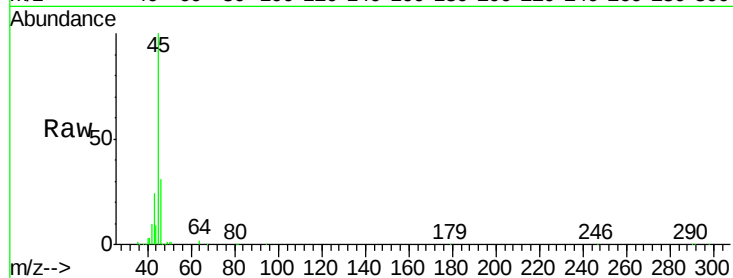
45 100

46 34.6 15.5 61.9

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#14

Bromoethene

Concen: 9.266 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

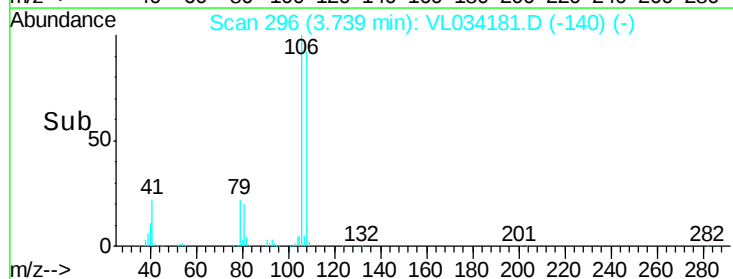
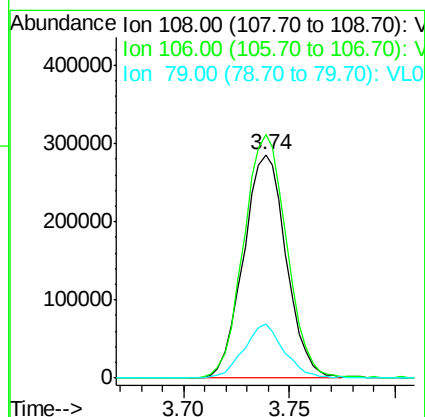
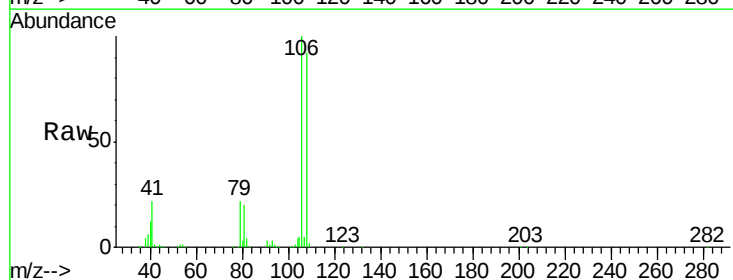
Tgt Ion: 108 Resp: 401199

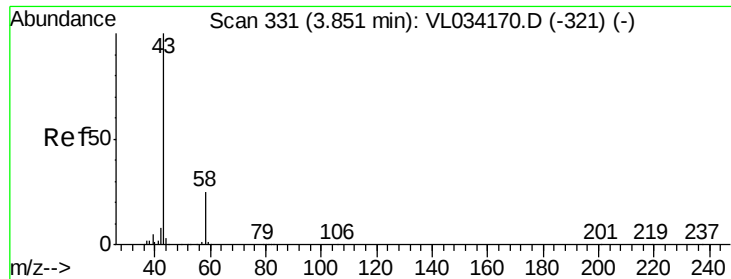
Ion Ratio Lower Upper

108 100

106 110.7 86.2 129.4

79 23.1 18.6 27.8





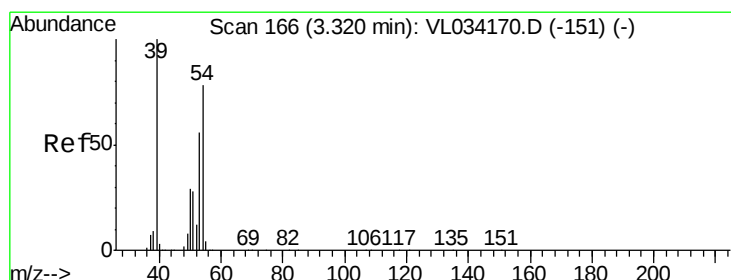
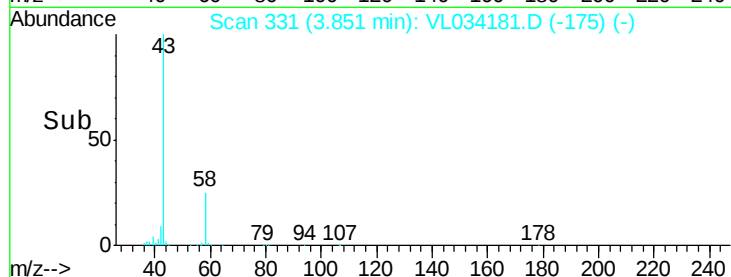
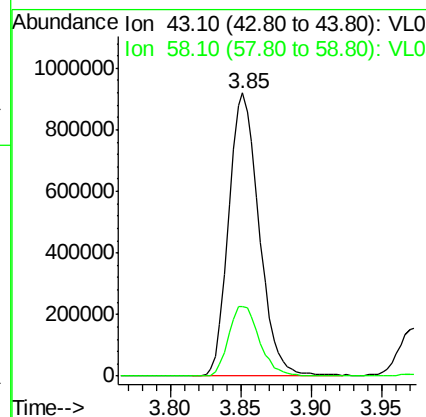
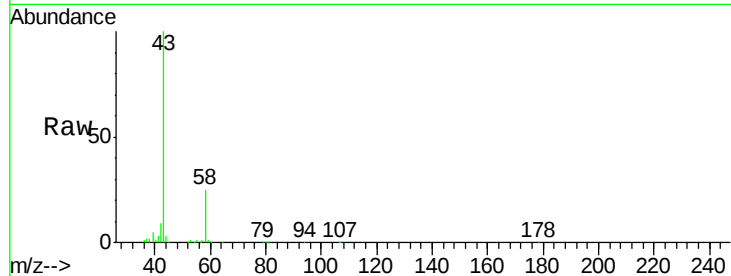
#15
Acetone
Concen: 8.587 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion: 43 Resp: 1385081
Ion Ratio Lower Upper
43 100
58 25.1 20.5 30.7

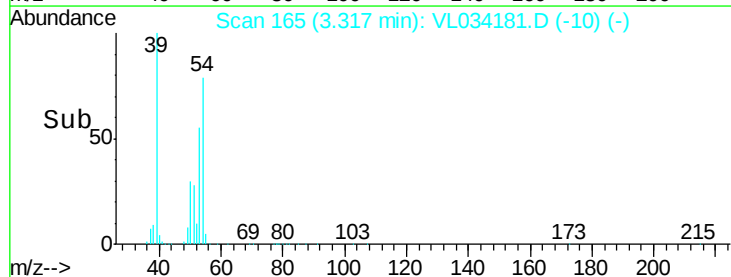
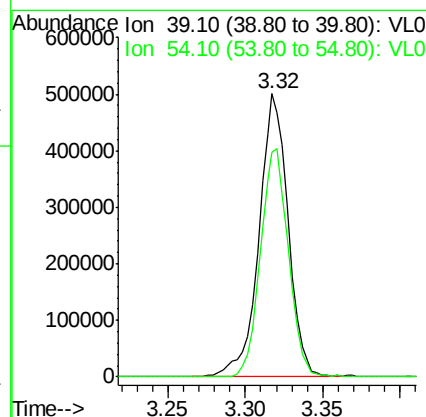
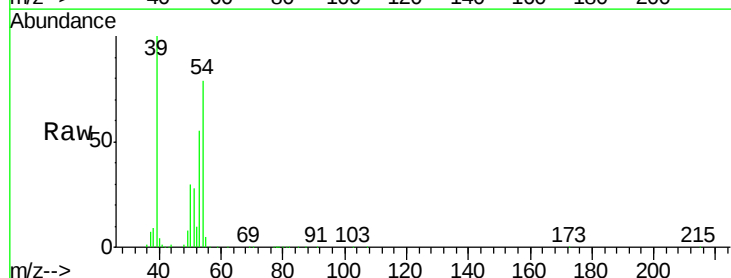
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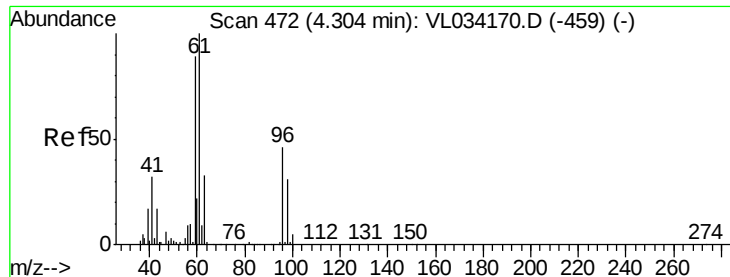
MMDadoda
9/20/2019 12:44:07 AM



#16
1,3-Butadiene
Concen: 9.366 ppbv
RT: 3.32 min Scan# 165
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion: 39 Resp: 659325
Ion Ratio Lower Upper
39 100
54 77.6 63.4 95.0





#17

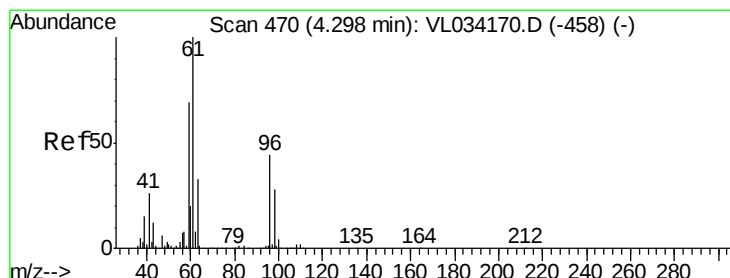
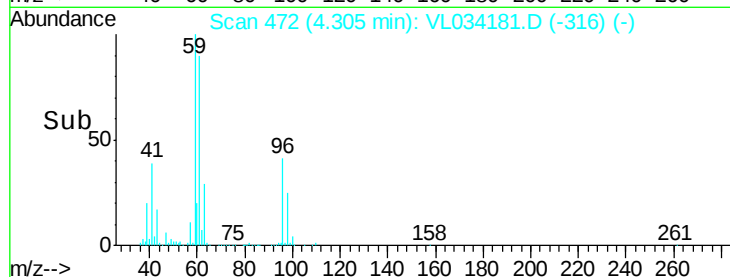
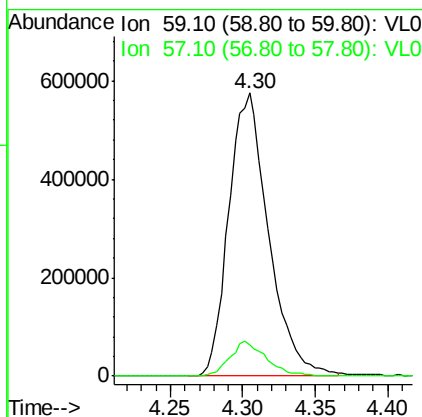
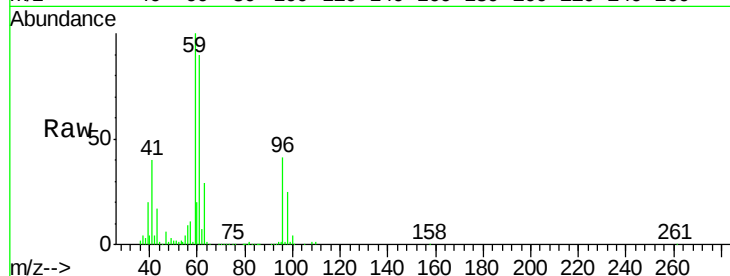
tert-Butyl alcohol
Concen: 10.734 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion: 59 Resp: 1097043
Ion Ratio Lower Upper
59 100
57 11.6 8.7 13.1

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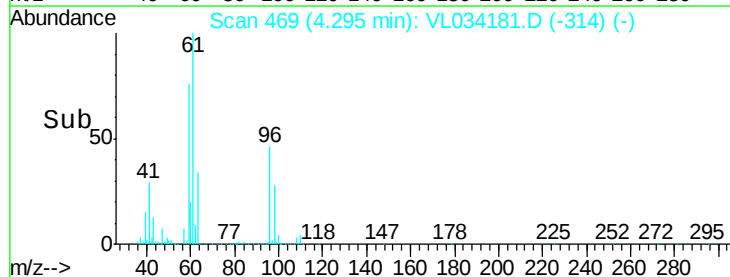
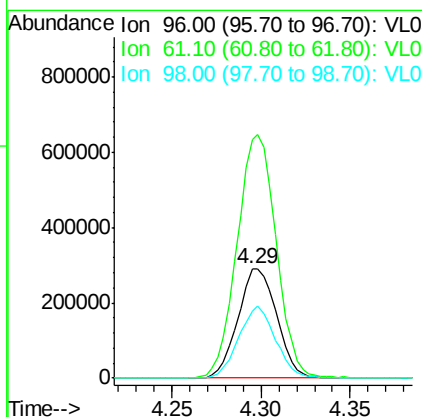
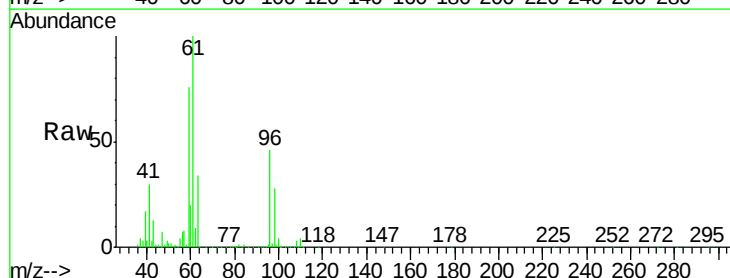
MMDadoda
9/20/2019 12:44:07 AM

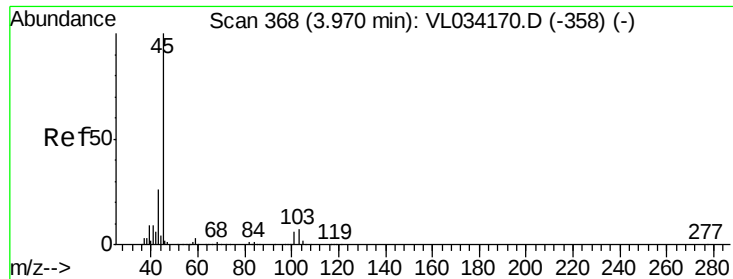


#18

1,1-Dichloroethene
Concen: 9.577 ppbv
RT: 4.29 min Scan# 469
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion: 96 Resp: 442360
Ion Ratio Lower Upper
96 100
61 217.7 183.3 274.9
98 61.5 51.4 77.2





#19

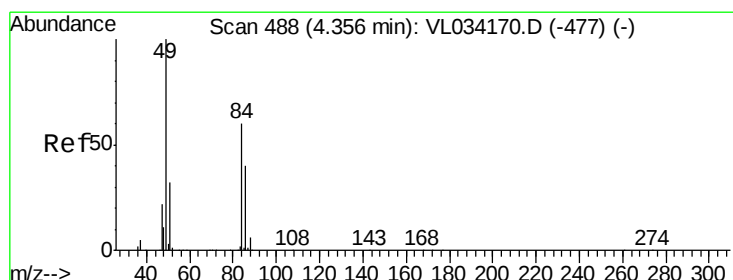
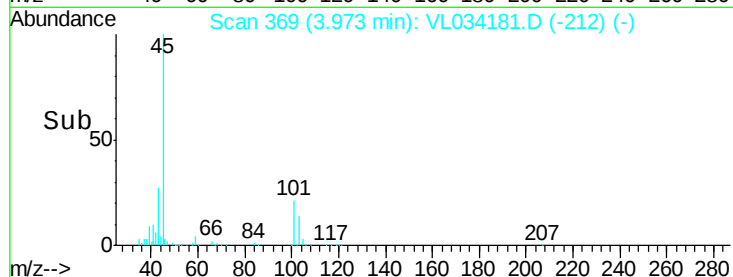
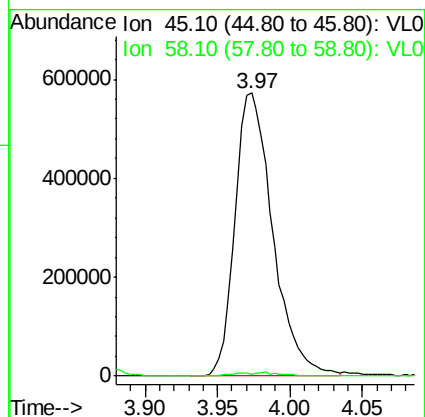
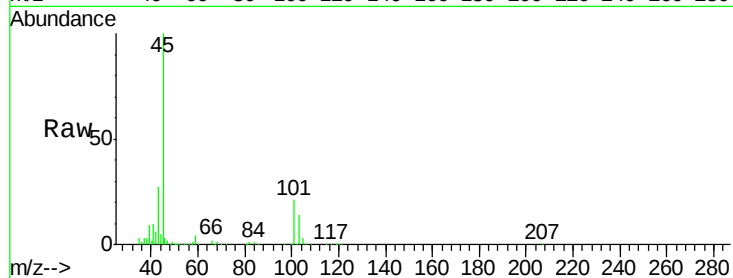
Isopropyl Alcohol
 Concen: 10.459 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion: 45 Resp: 1037402
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.0

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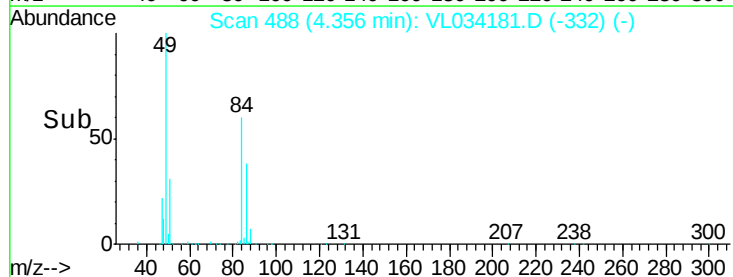
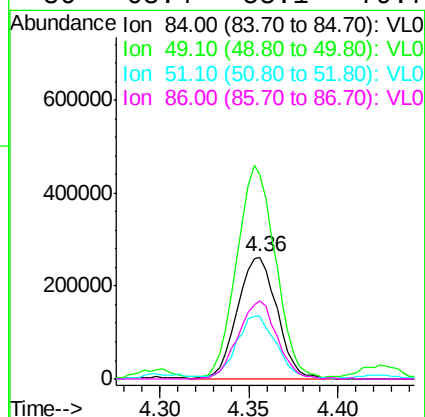
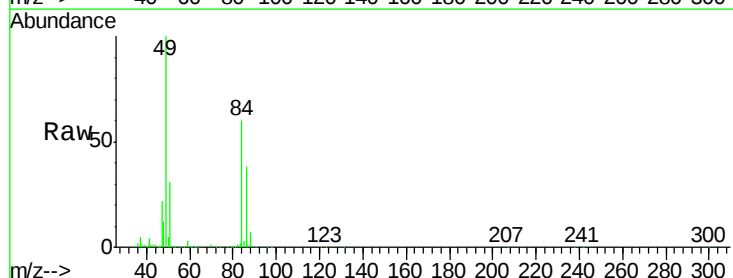
MMDadoda
 9/20/2019 12:44:07 AM

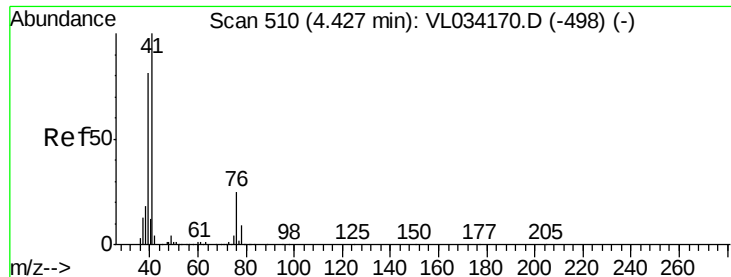


#20

Methylene Chloride
 Concen: 8.691 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion: 84 Resp: 404201
 Ion Ratio Lower Upper
 84 100
 49 165.8 133.8 200.8
 51 49.9 43.6 65.4
 86 63.4 53.1 79.7





#21

Allvl Chloride

Concen: 9.658 ppbv

RT: 4.42 min Scan# 509

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

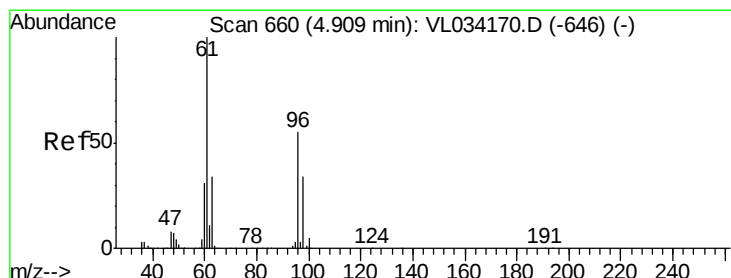
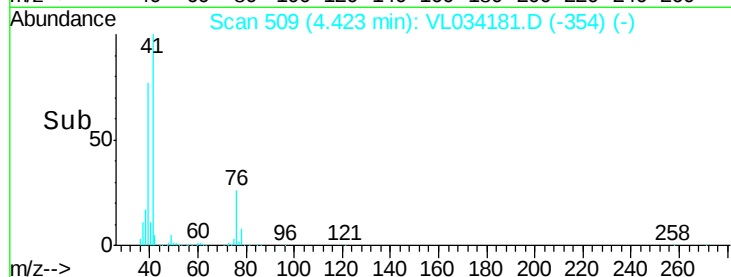
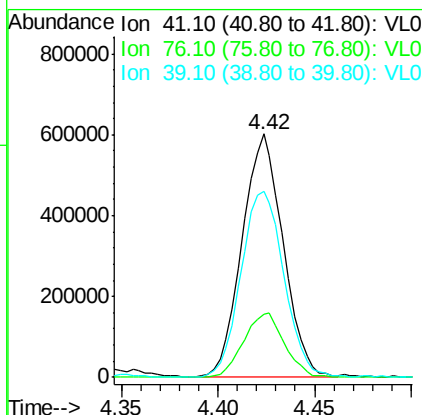
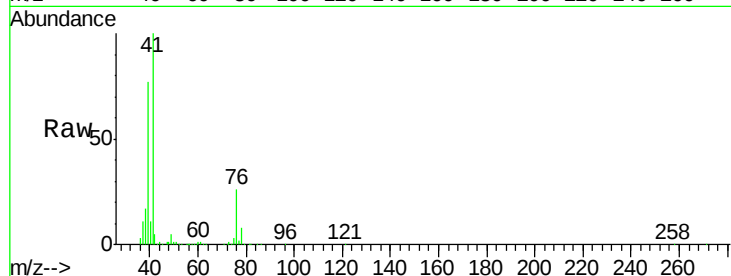
ClientSampleId :

VL0917ABS01

Tot Ion:	41	Resp:	879865
Ion	Ratio	Lower	Upper
41	100		
76	26.7	21.8	32.6
39	81.2	64.8	97.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.394 ppbv

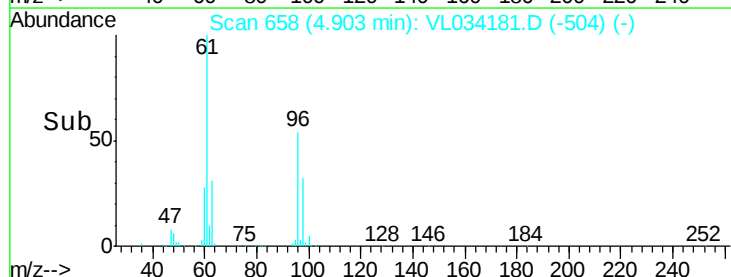
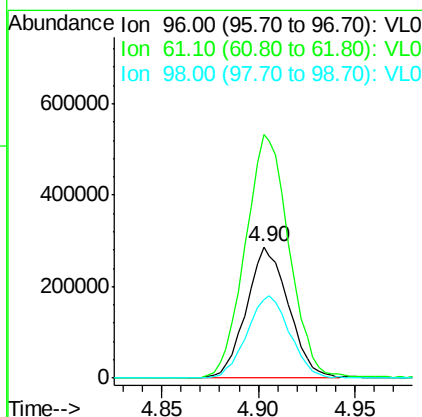
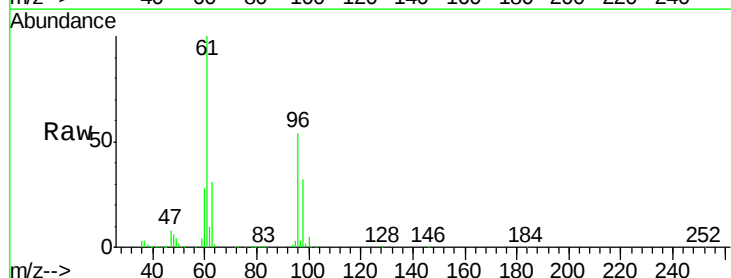
RT: 4.90 min Scan# 658

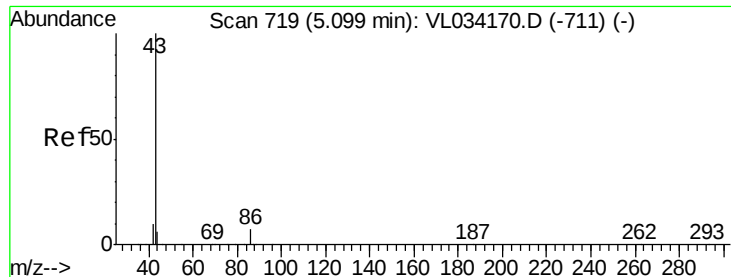
Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:	96	Resp:	434115
Ion	Ratio	Lower	Upper
96	100		
61	185.9	145.5	218.3
98	60.0	49.9	74.9





#23

Vinyl Acetate

Concen: 9.583 ppbv

RT: 5.10 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 43 Resp: 2277662

Ion Ratio Lower Upper

43 100

86 6.6 5.1 7.7

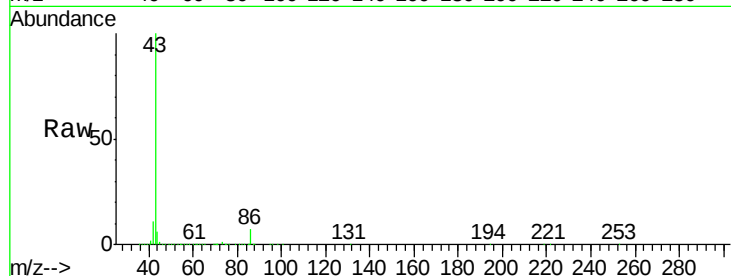
42 10.9 8.6 12.8

44 5.3 4.7 7.1

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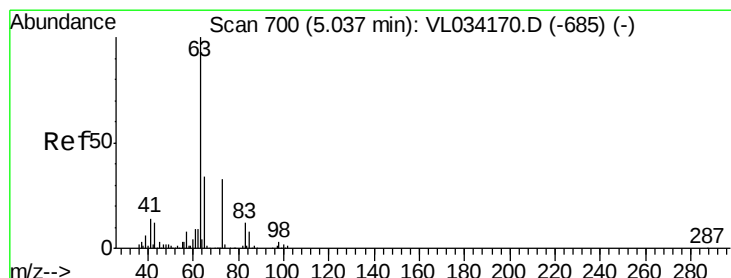
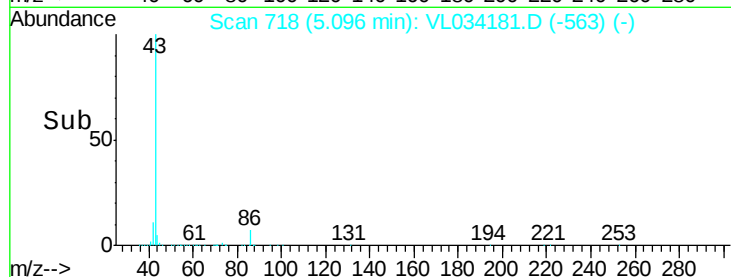
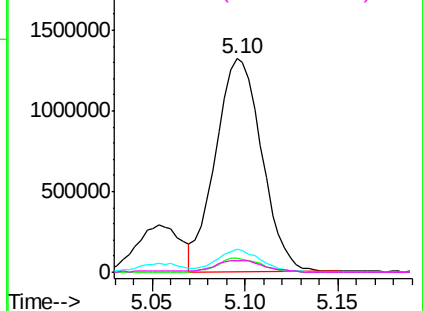


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.909 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

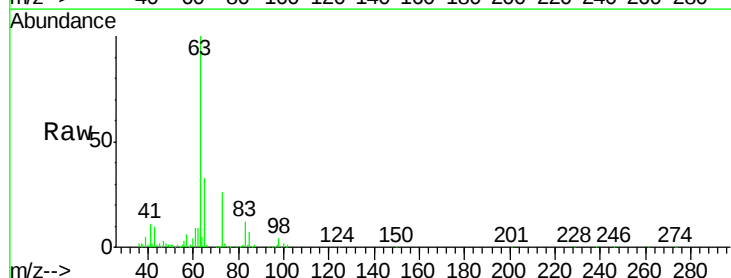
Tgt Ion: 63 Resp: 1425774

Ion Ratio Lower Upper

63 100

98 3.6 1.8 5.3

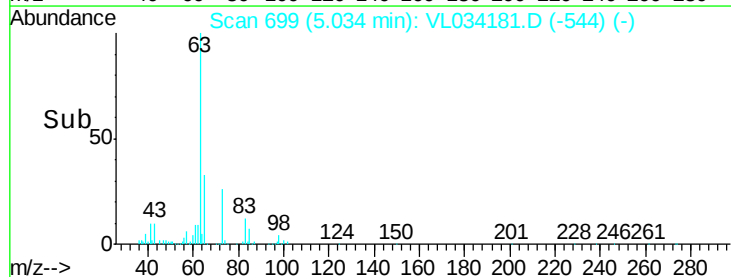
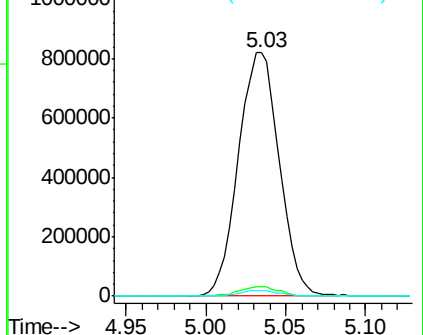
100 2.0 1.0 3.0

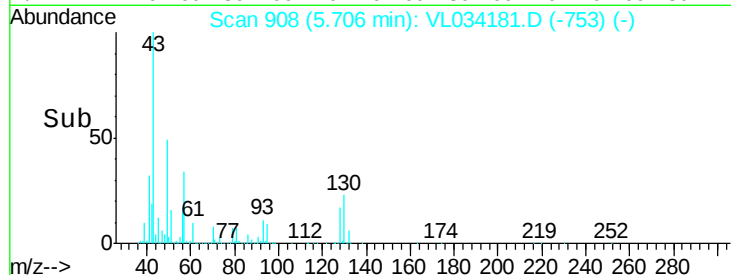
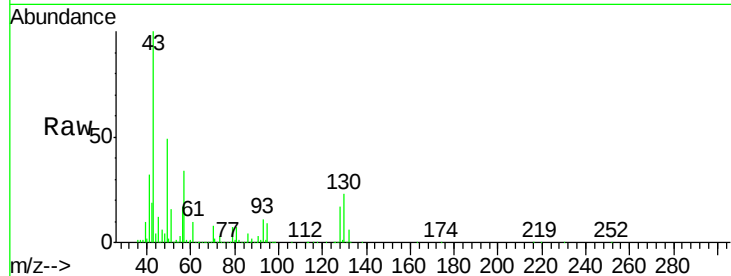
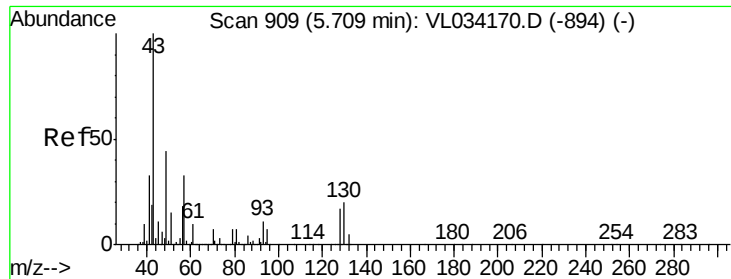


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





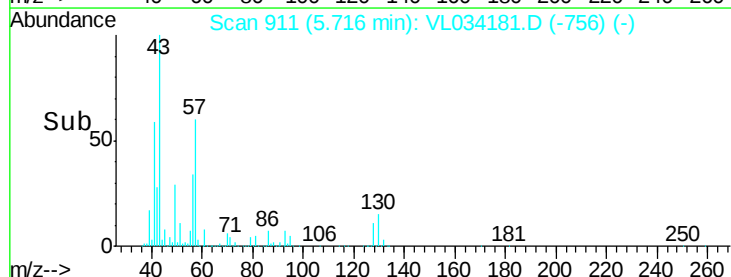
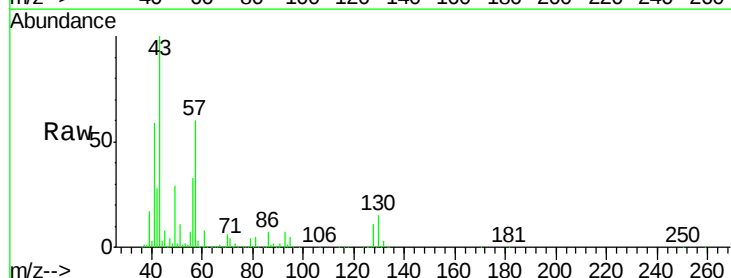
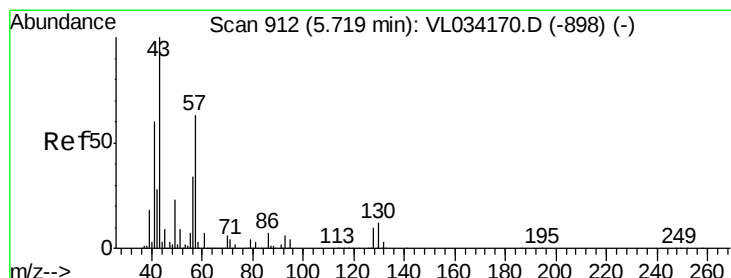
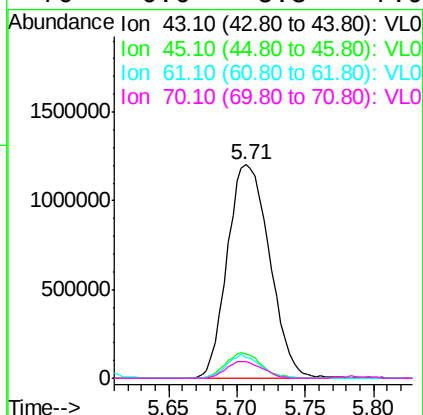
#25
Ethyl Acetate
Concen: 8.477 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tot Ion	43	Resp	2585653
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.4	12.6
61	8.9	7.2	10.8
70	6.6	5.3	7.9

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

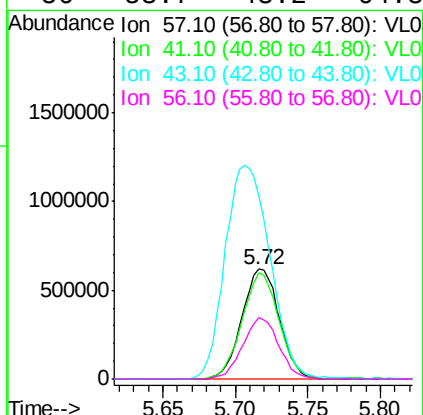
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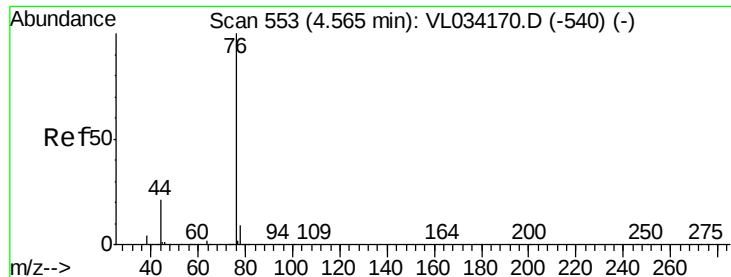
MMDadoda
9/20/2019 12:44:07 AM



#26
Hexane
Concen: 8.791 ppbv
RT: 5.72 min Scan# 911
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion	57	Resp	1115401
Ion	Ratio	Lower	Upper
57	100		
41	95.2	78.5	117.7
43	233.5	189.5	284.3
56	53.7	43.2	64.8





#27

Carbon Disulfide

Concen: 10.218 ppbv

RT: 4.56 min Scan# 553

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 76 Resp: 1195645

Ion Ratio Lower Upper

76 100

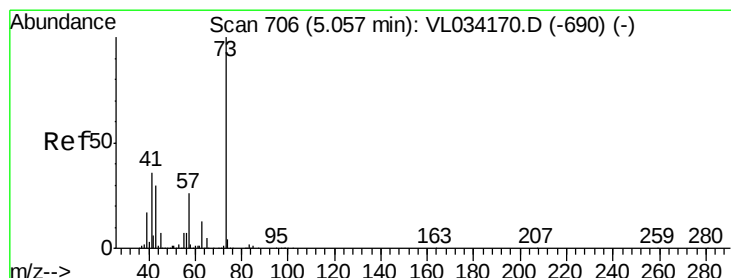
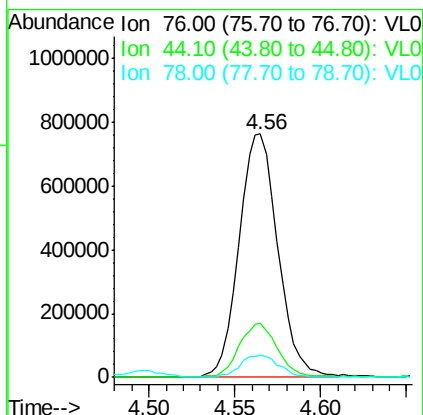
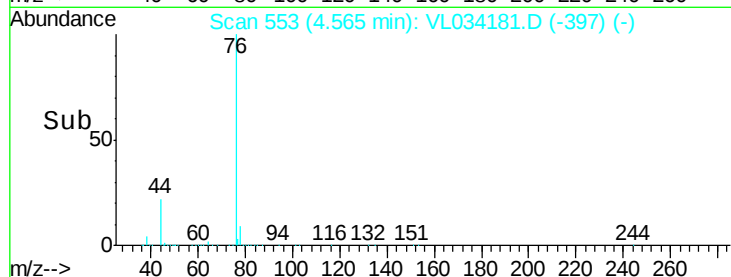
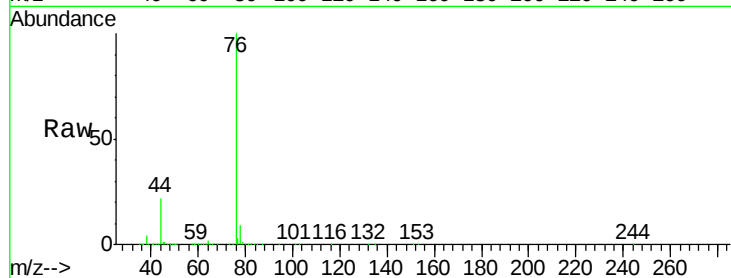
44 22.1 17.6 26.4

78 9.1 7.6 11.4

Manual Integrations
APPROVED

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#28

Methyl tert-Butyl Ether

Concen: 9.130 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL034181.D

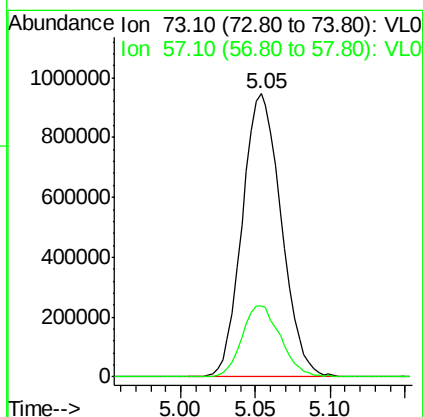
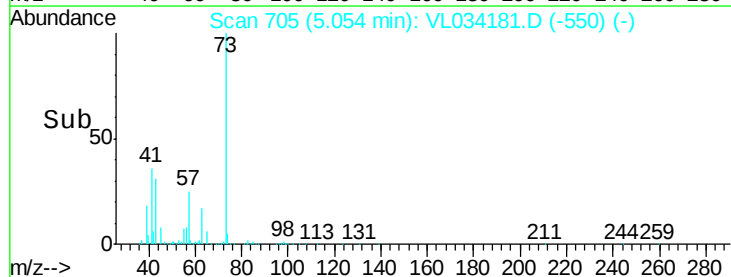
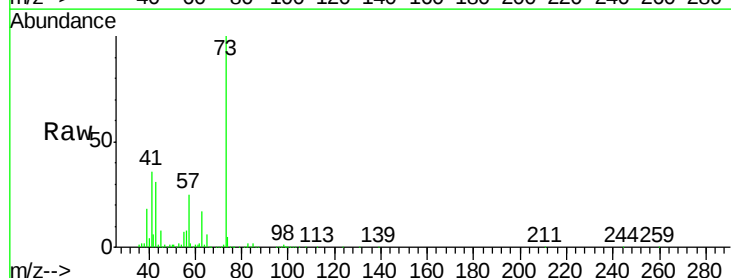
Acq: 17 Sep 2019 12:52

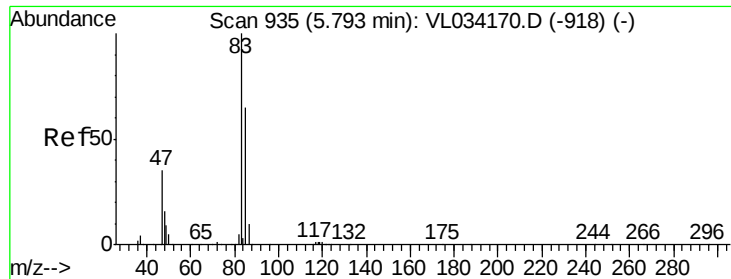
Tgt Ion: 73 Resp: 1720406

Ion Ratio Lower Upper

73 100

57 25.1 20.2 30.2





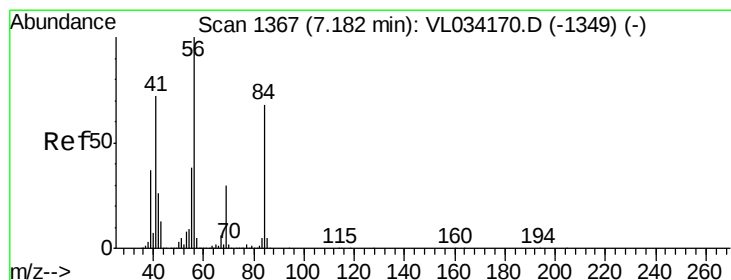
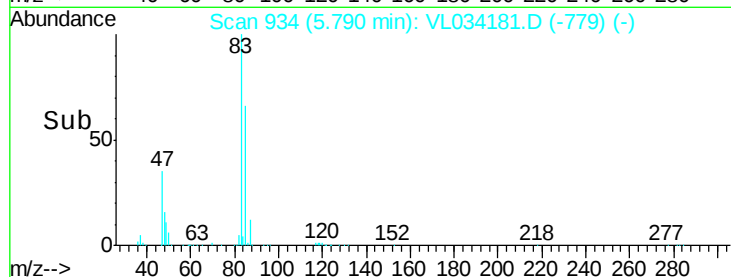
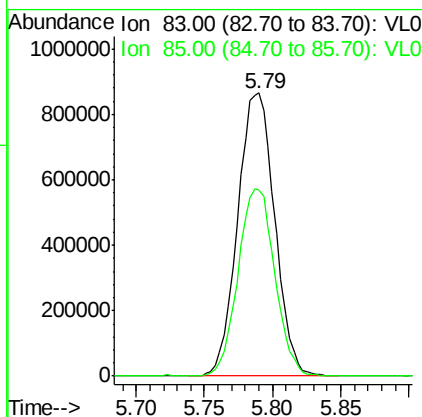
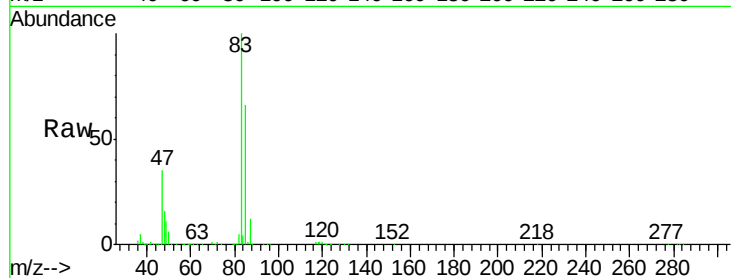
#29
Chloroform
Concen: 9.002 ppbv
RT: 5.79 min Scan# 934
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion: 83 Resp: 1632133
Ion Ratio Lower Upper
83 100
85 65.6 52.3 78.5

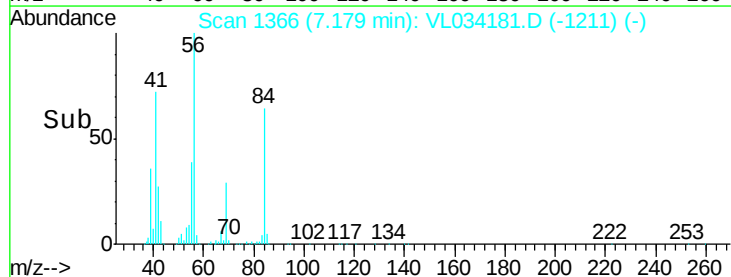
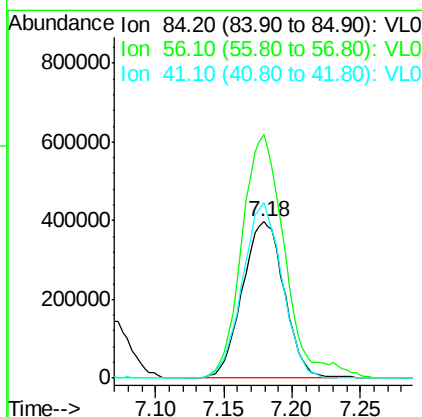
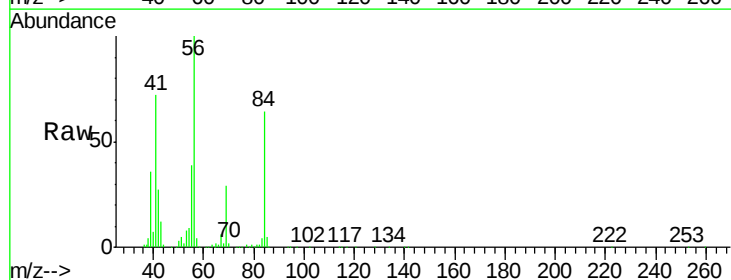
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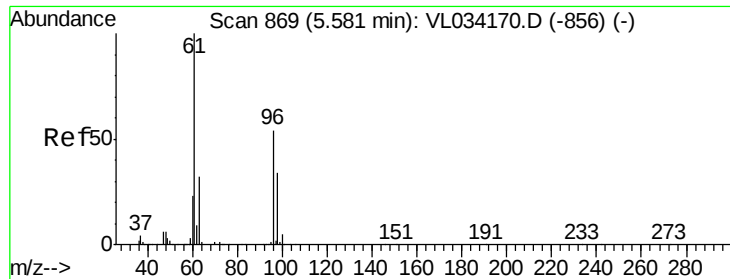
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#30
Cyclohexane
Concen: 9.237 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion: 84 Resp: 846136
Ion Ratio Lower Upper
84 100
56 160.0 126.2 189.2
41 106.4 85.8 128.8





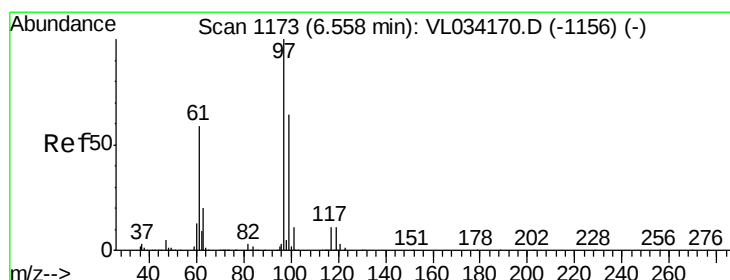
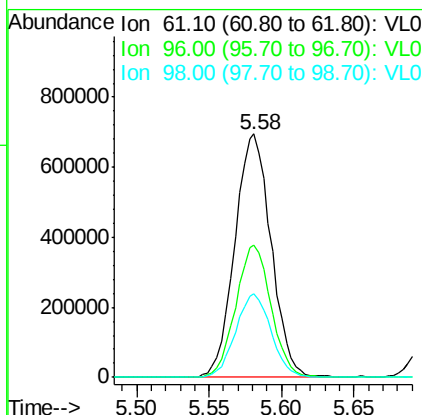
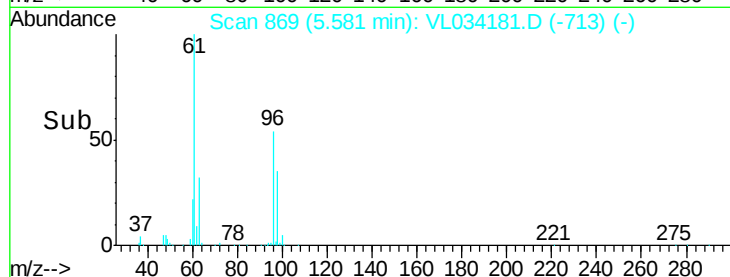
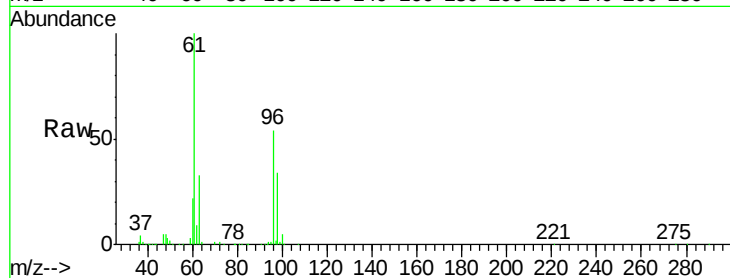
#31
 cis-1,2-Dichloroethene
 Concen: 9.293 ppbv
 RT: 5.58 min Scan# 869
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	54.3	43.0	64.4
98	34.5	27.2	40.8

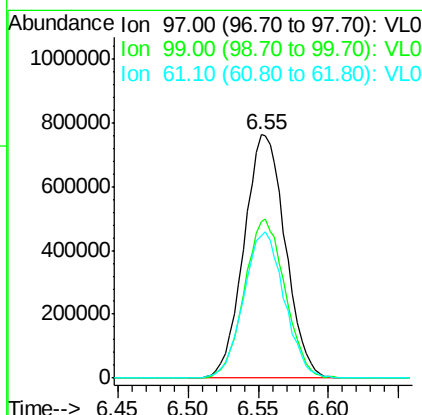
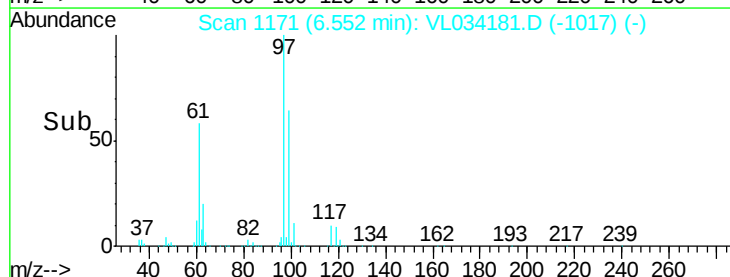
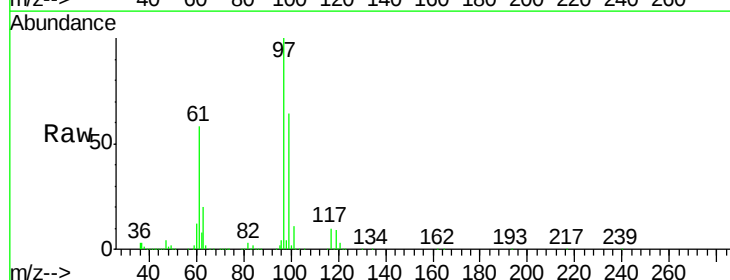
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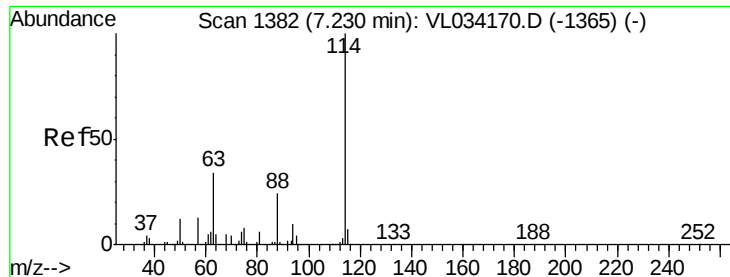
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#32
 1,1,1-Trichloroethane
 Concen: 8.935 ppbv
 RT: 6.55 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.2
61	59.2	48.4	72.6





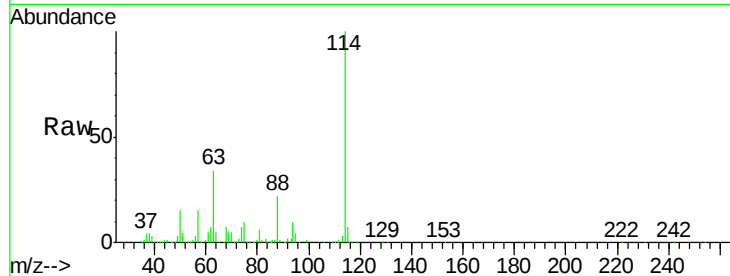
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.5	27.8	41.6
88	21.3	17.1	25.7

Manual Integrations
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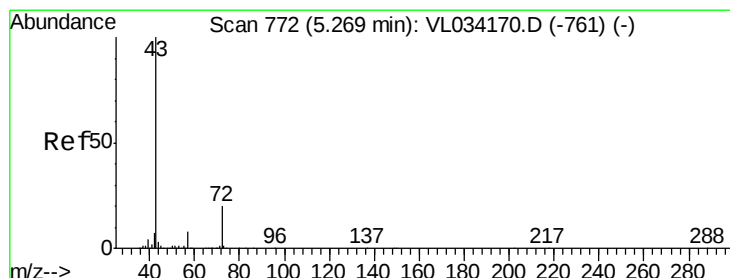
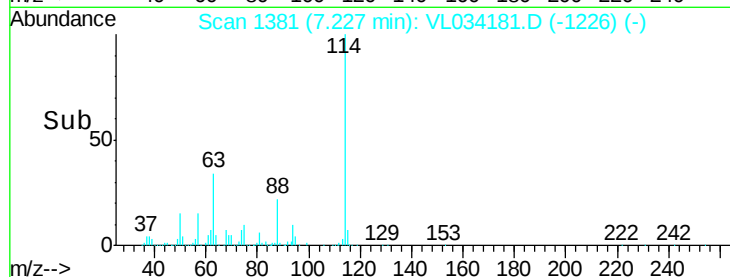
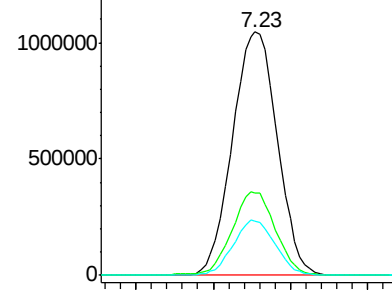
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Abundance Ion 114.10 (113.80 to 114.80): VL0

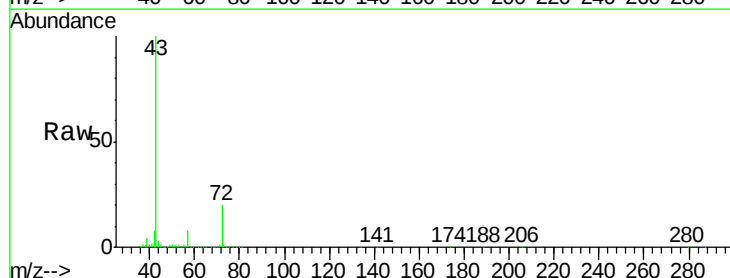
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



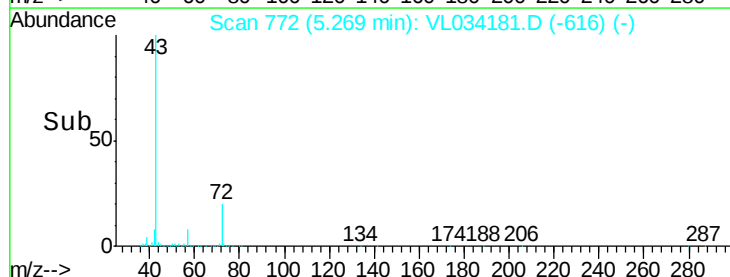
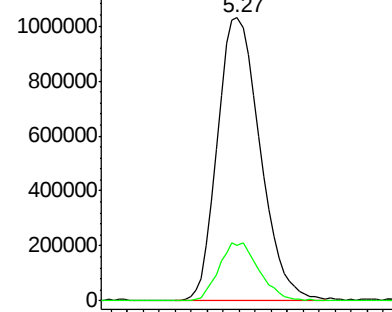
#34
 2-Butanone
 Concen: 8.642 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

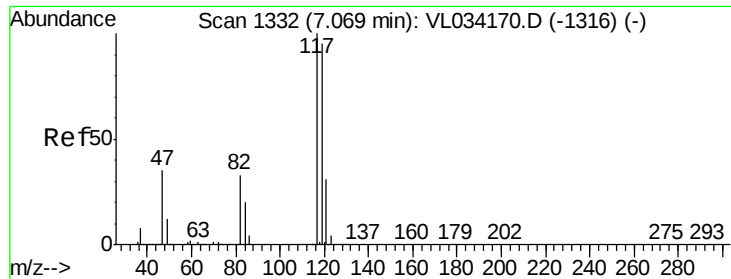
Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.4	15.0	22.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.860 ppbv

RT: 7.07 min Scan# 1331

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

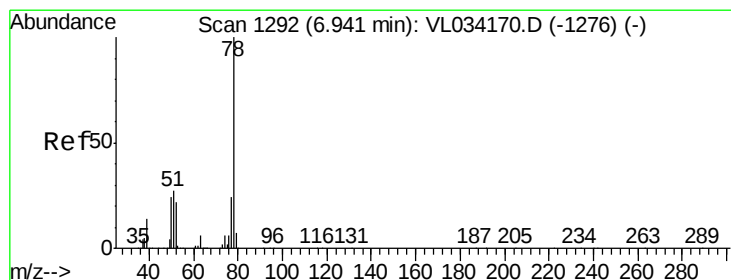
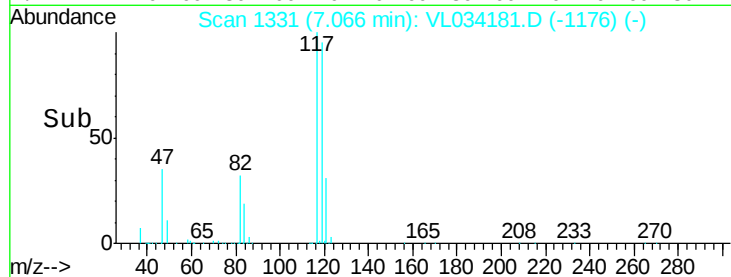
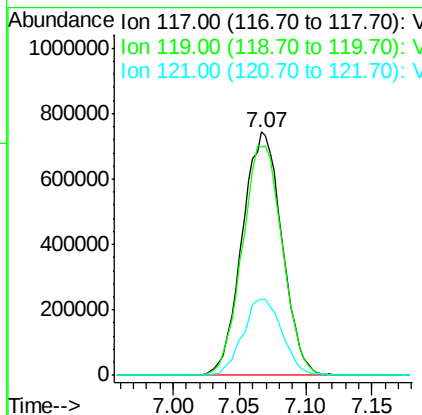
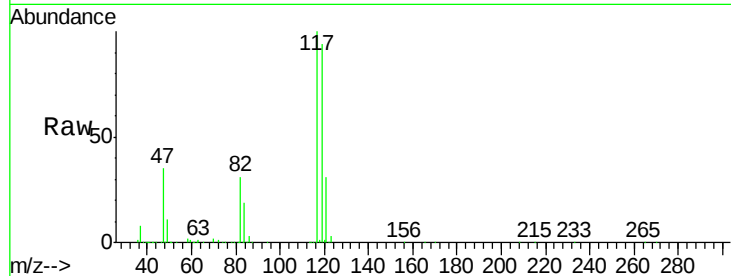
ClientSampleId :

VL0917ABS01

Tot Ion:	117	Resp:	1552131
Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.8	113.6
121	31.3	25.0	37.6

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#36

Benzene

Concen: 8.724 ppbv

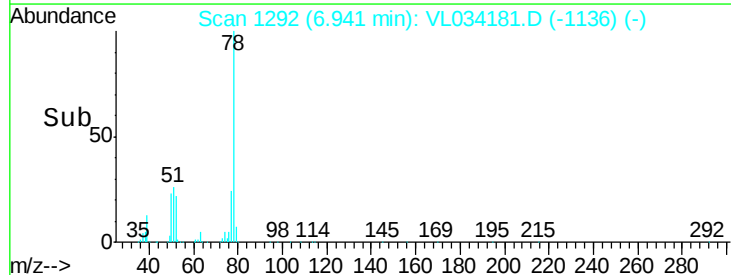
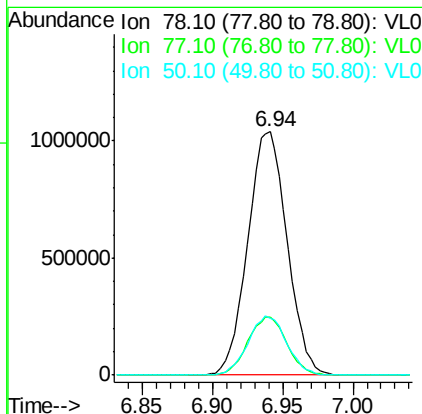
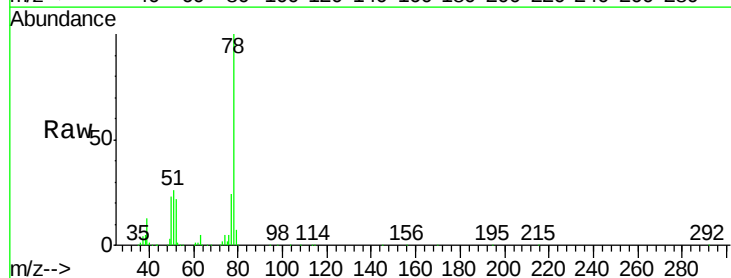
RT: 6.94 min Scan# 1292

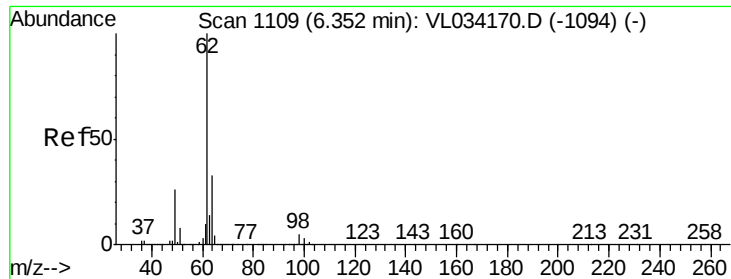
Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:	78	Resp:	2031721
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4
50	23.4	18.9	28.3





#37

1,2-Dichloroethane

Concen: 8.901 ppbv

RT: 6.35 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 62 Resp: 1474533

Ion Ratio Lower Upper

62 100

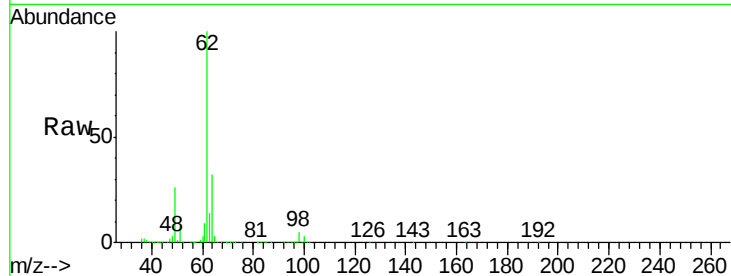
98 4.9 3.8 5.8

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.35

800000

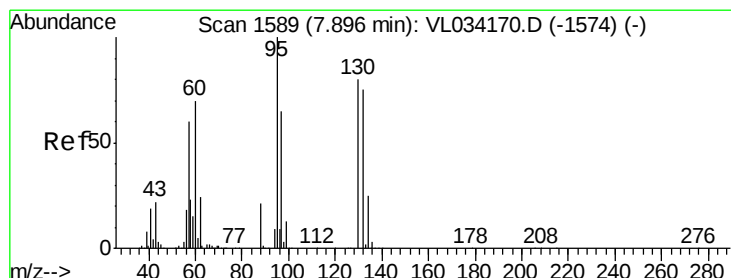
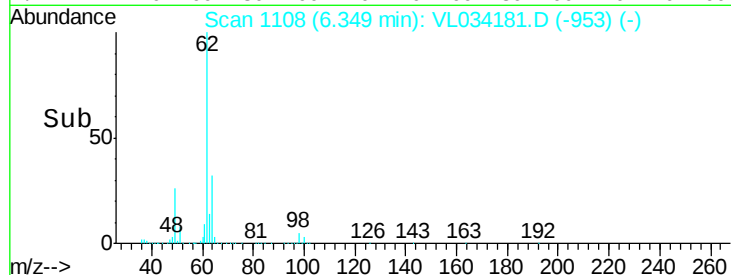
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 8.253 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:130 Resp: 686783

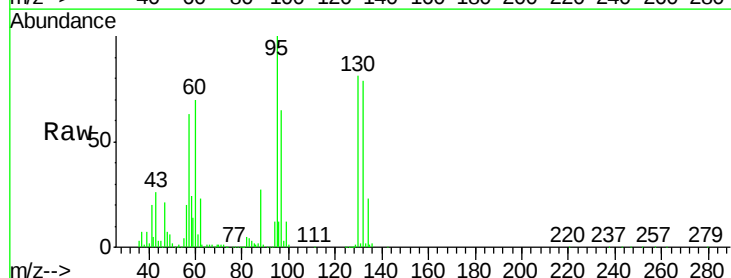
Ion Ratio Lower Upper

130 100

95 123.2 99.8 149.6

132 97.6 75.2 112.8

97 80.1 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

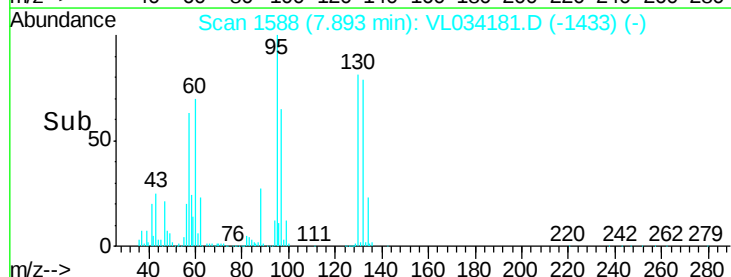
600000

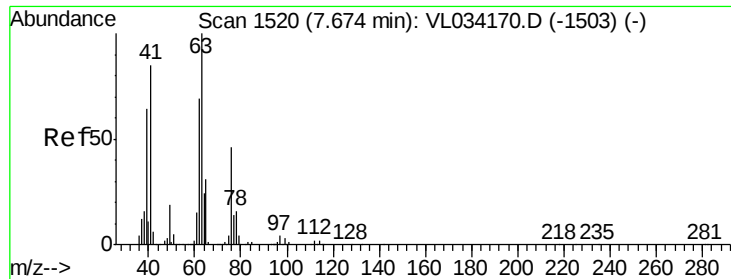
400000

200000

0

Time-->





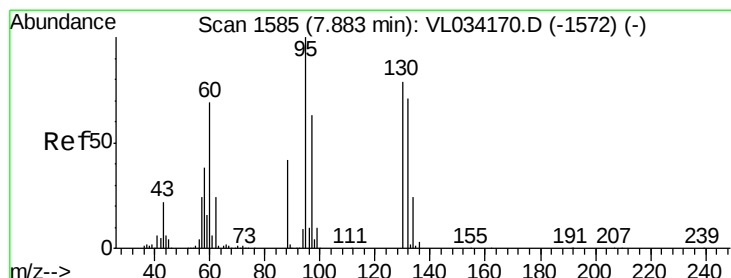
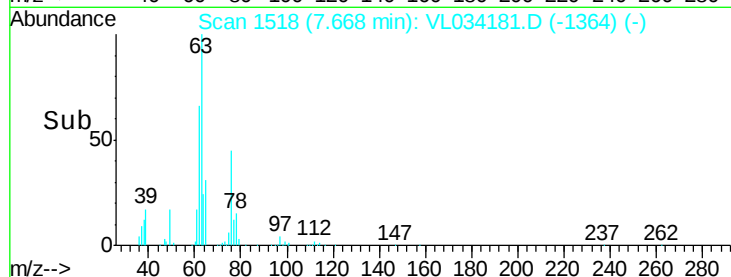
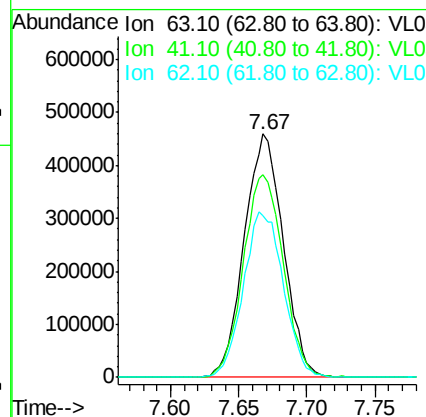
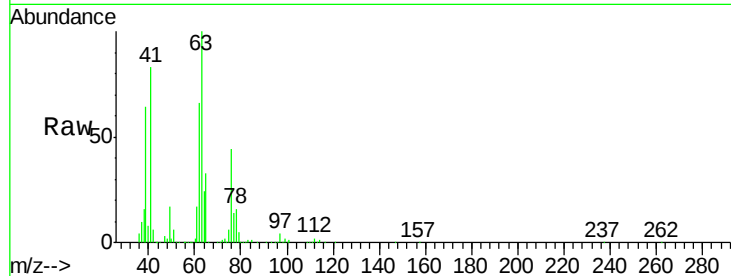
#39
 1,2-Dichloropropane
 Concen: 8.718 ppbv
 RT: 7.67 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	912295		
41	83.3	68.4	102.6	
62	66.3	55.4	83.2	

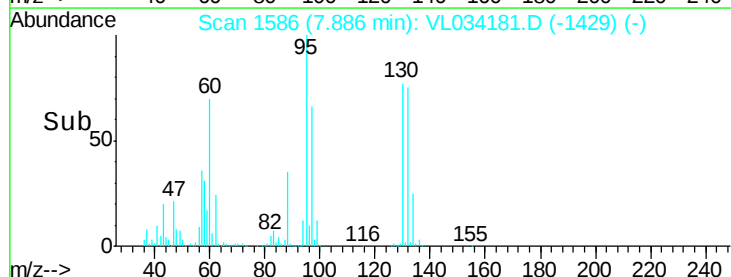
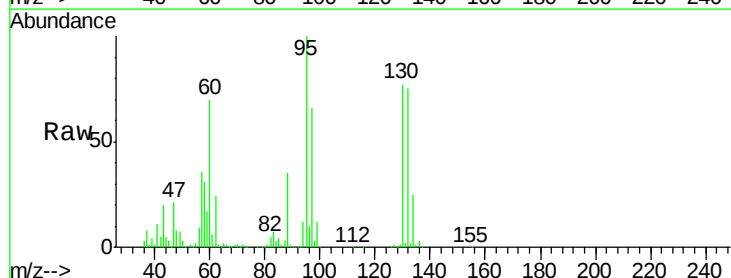
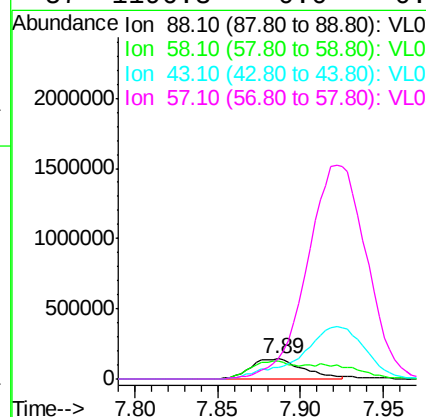
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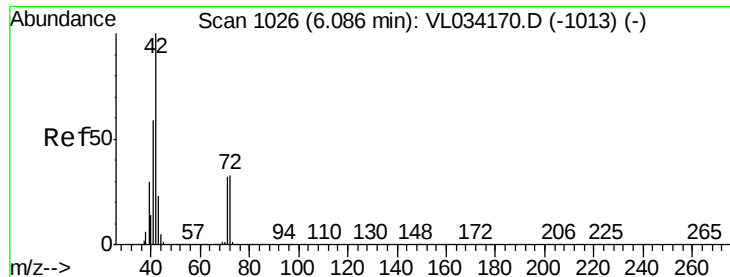
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#40
 1,4-Dioxane
 Concen: 9.360 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	316975		
58	152.3	131.8	197.6	
43	317.8	0.0	0.0#	
57	1196.3	0.0	0.0#	





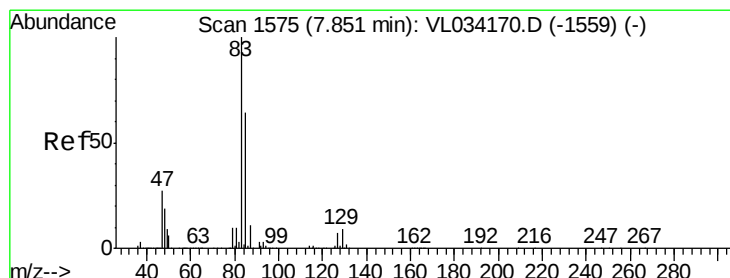
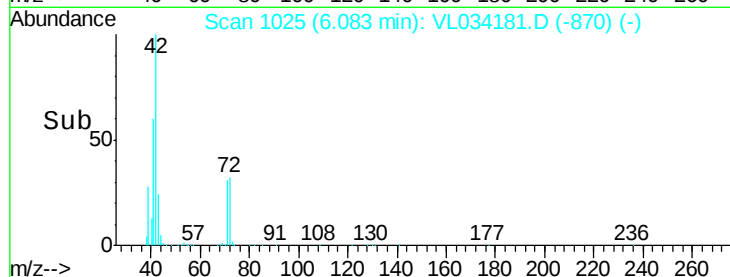
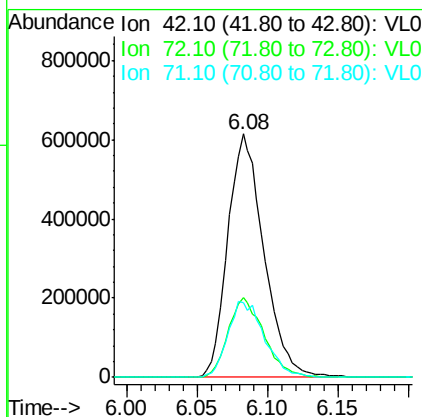
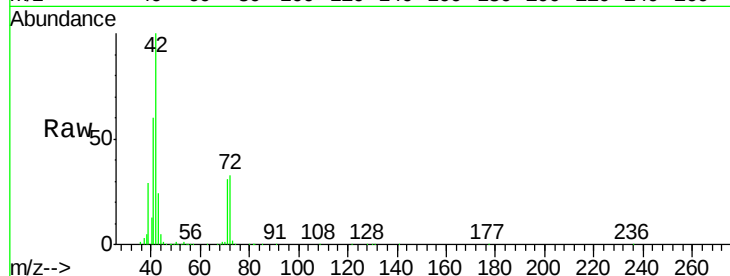
#41
Tetrahydrofuran
Concen: 9.060 ppbv
RT: 6.08 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.8	26.6	40.0
71	32.0	25.1	37.7

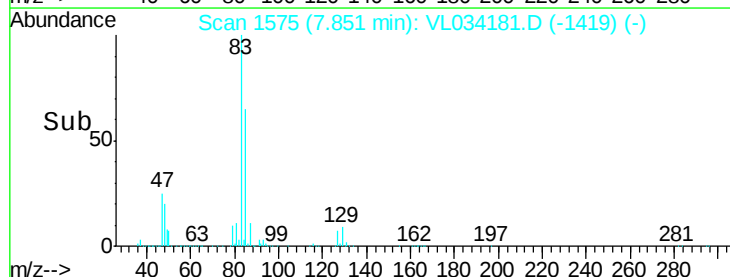
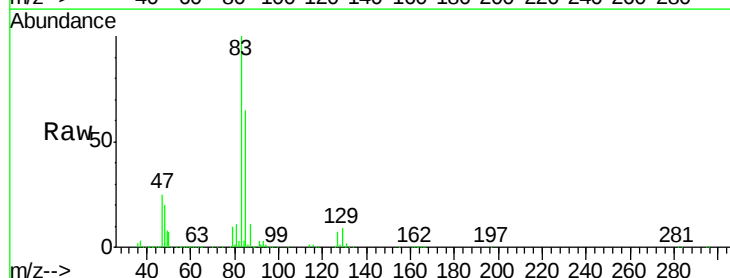
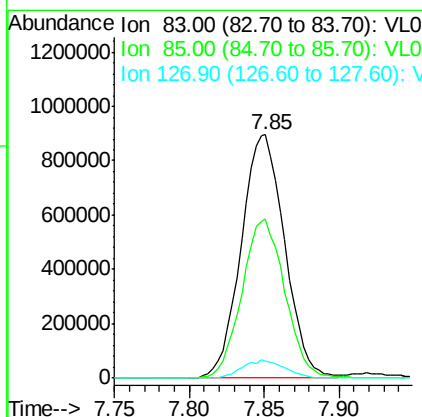
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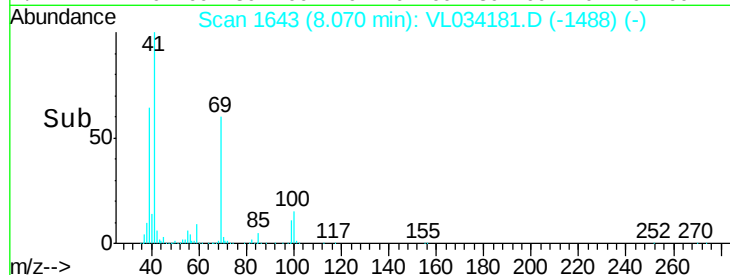
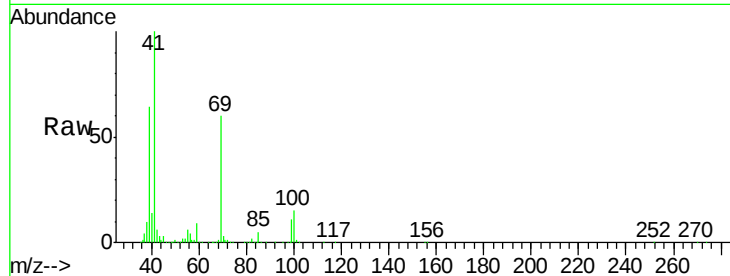
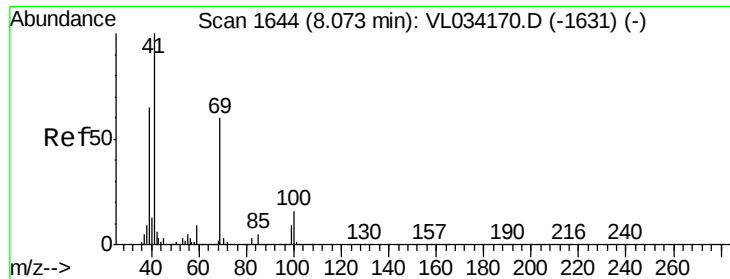
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#42
Bromodichloromethane
Concen: 9.101 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.0
127	7.2	5.5	8.3





#43

Methyl Methacrylate

Concen: 9.617 ppbv

RT: 8.07 min Scan# 1643

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tot Ion:	69	Resp:	925209
Ion	Ratio	Lower	Upper
69	100		
41	172.7	140.4	210.6
100	26.4	21.9	32.9

Instrument :

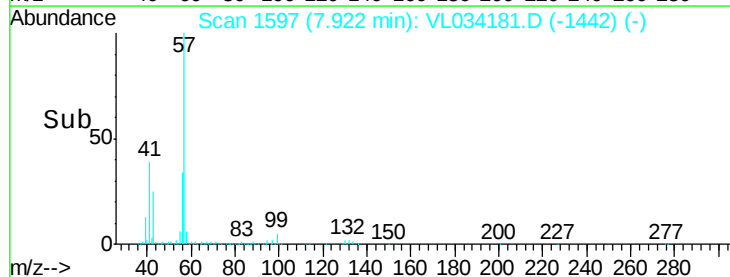
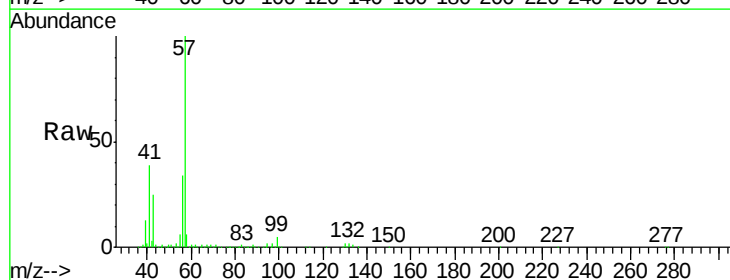
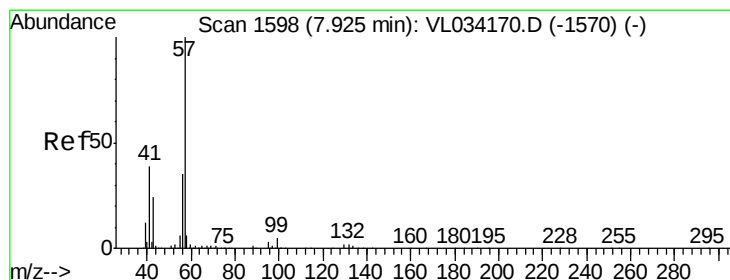
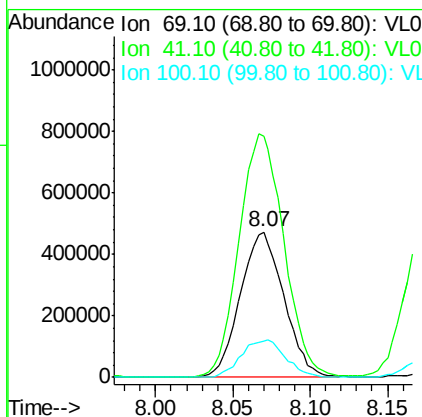
MSVOA_L

ClientSampled :

VL0917ABS01

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#44

2,2,4-Trimethylpentane

Concen: 8.443 ppbv

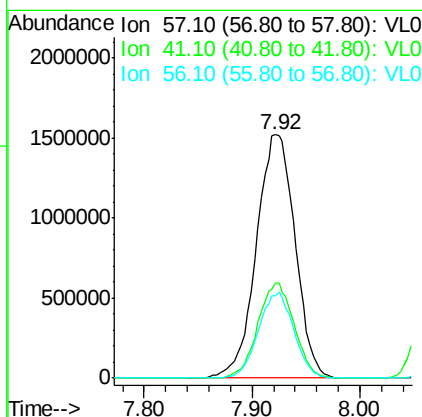
RT: 7.92 min Scan# 1597

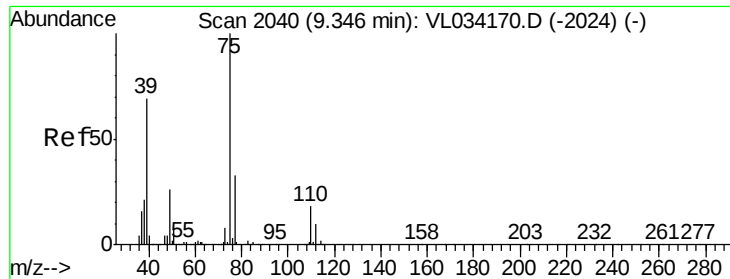
Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:	57	Resp:	3785606
Ion	Ratio	Lower	Upper
57	100		
41	36.6	29.8	44.6
56	32.4	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 10.142 ppbv

RT: 9.34 min Scan# 2039

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tot Ion: 75 Resp: 1153717

Ion Ratio Lower Upper

75 100

77 33.3 26.2 39.2

Instrument :

MSVOA_L

ClientSampleId :

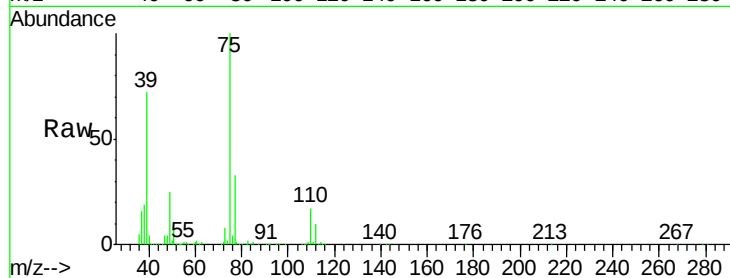
VL0917ABS01

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.34

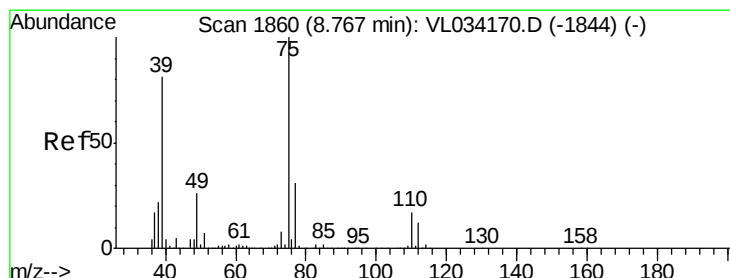
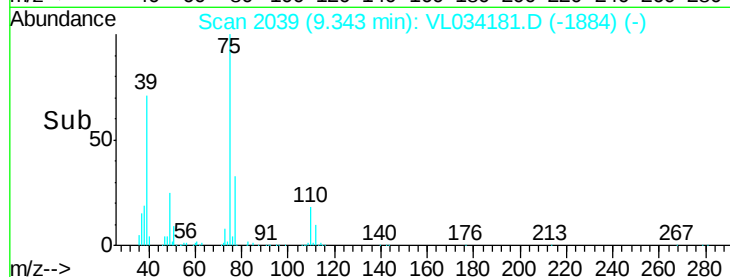
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 9.701 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

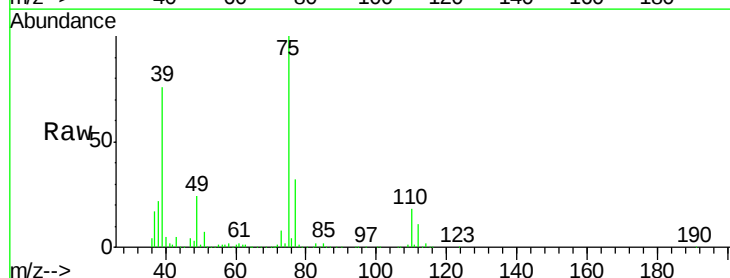
Tgt Ion: 75 Resp: 1327470

Ion Ratio Lower Upper

75 100

39 76.3 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

8.76

800000

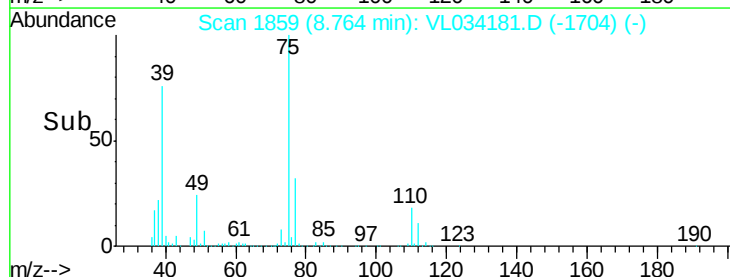
600000

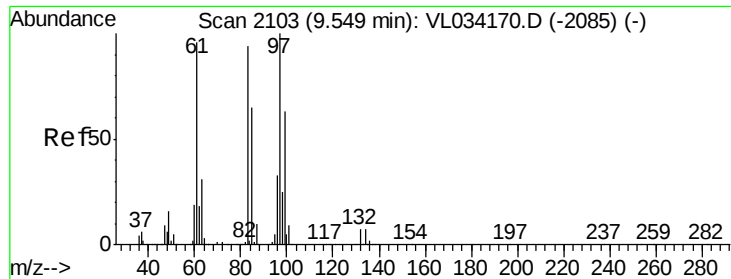
400000

200000

0

Time-->





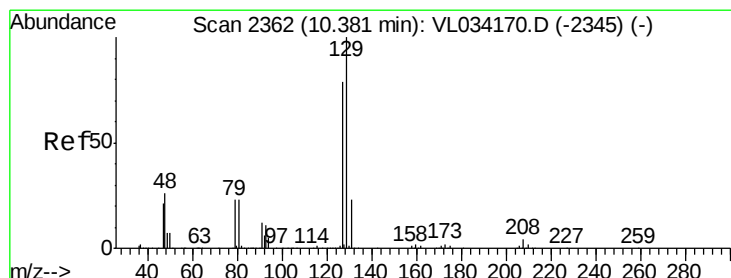
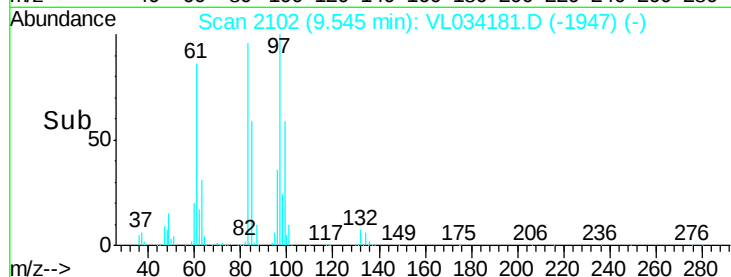
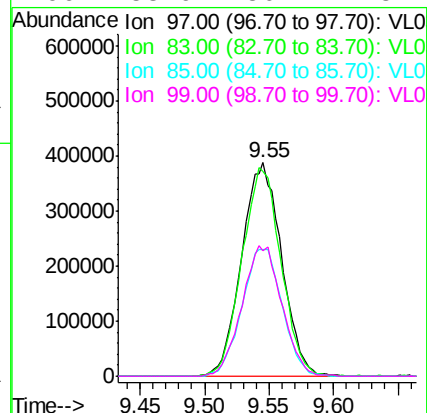
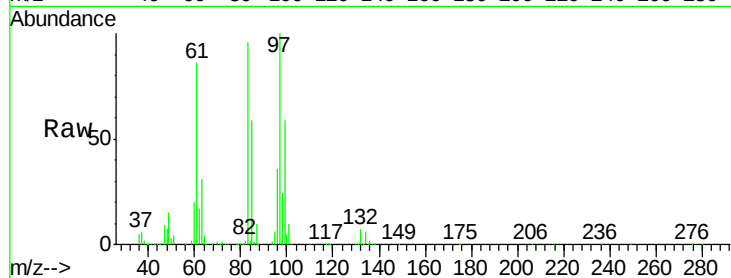
#47
 1,1,2-Trichloroethane
 Concen: 8.911 ppbv
 RT: 9.55 min Scan# 2102
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	95.5	75.3	112.9
85	59.1	52.1	78.1
99	58.9	50.2	75.2

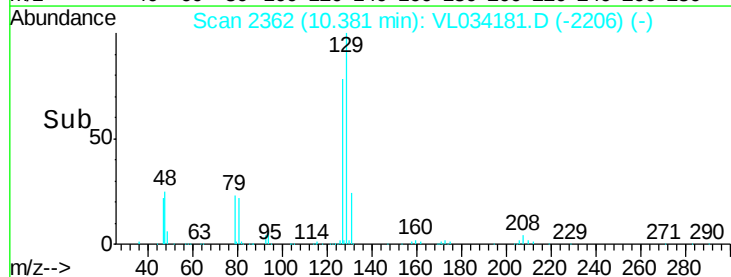
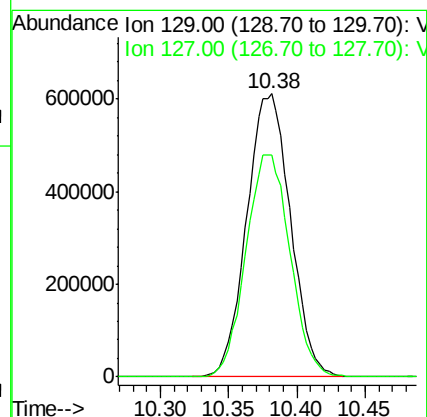
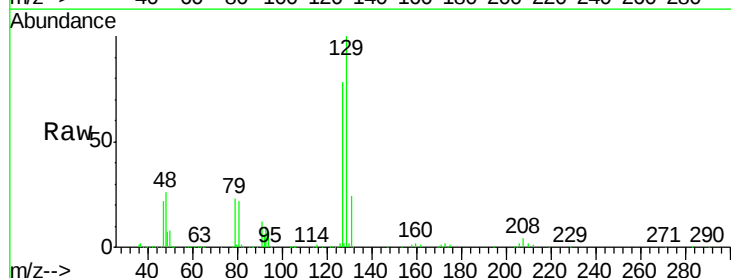
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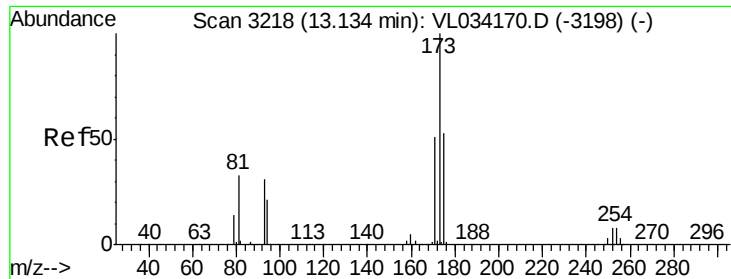
MMDadoda
 9/20/2019 12:44:07 AM



#48
 Dibromochloromethane
 Concen: 9.142 ppbv
 RT: 10.38 min Scan# 2362
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.2	117.6





#49

Bromoform

Concen: 9.700 ppbv

RT: 13.12 min Scan# 3215

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:173 Resp: 1169022

Ion Ratio Lower Upper

173 100

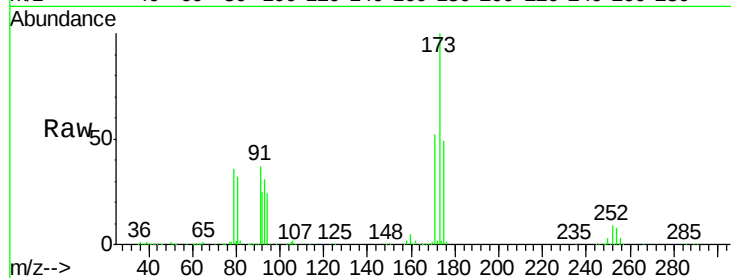
175 49.3 40.3 60.5

171 52.2 42.0 63.0

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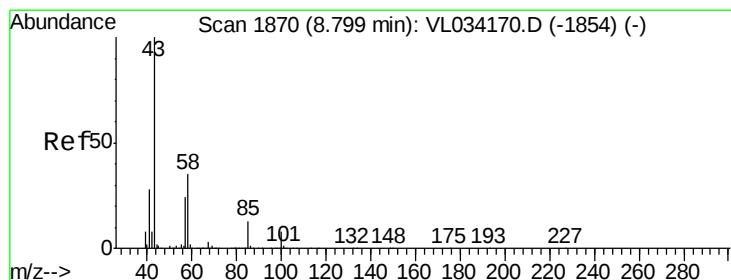
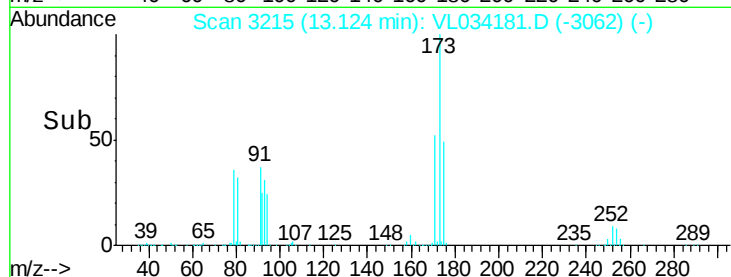
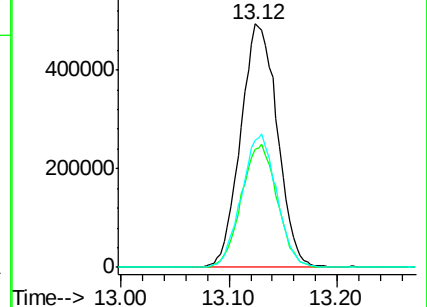
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 8.699 ppbv

RT: 8.80 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VL034181.D

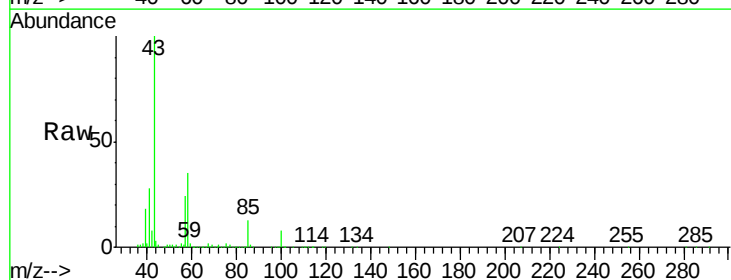
Acq: 17 Sep 2019 12:52

Tgt Ion: 43 Resp: 2725820

Ion Ratio Lower Upper

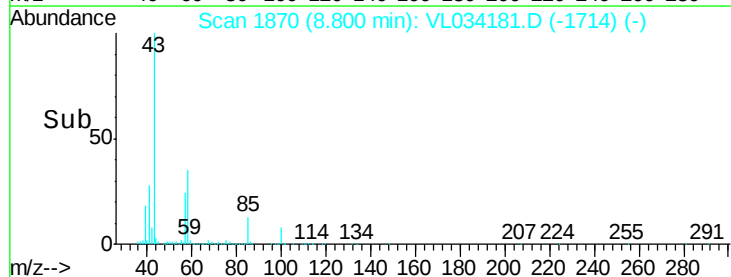
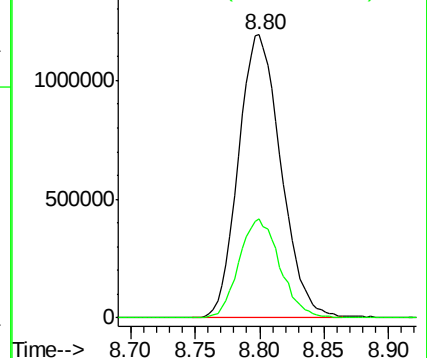
43 100

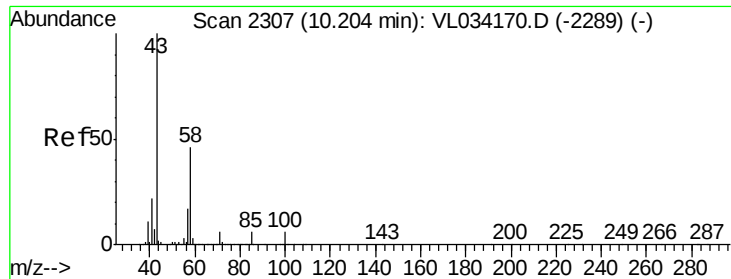
58 33.9 27.6 41.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.077 ppbv

RT: 10.20 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

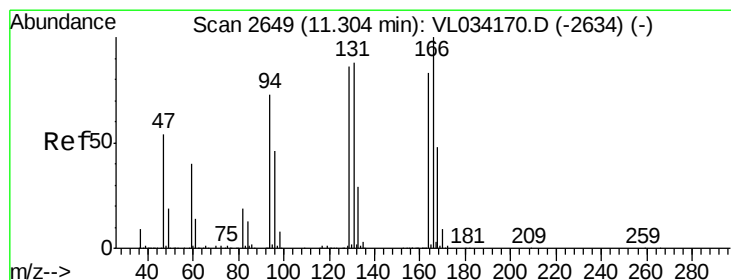
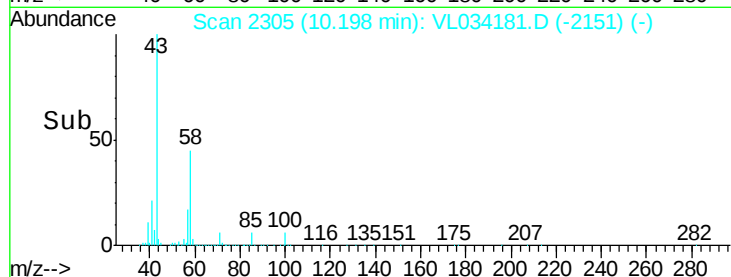
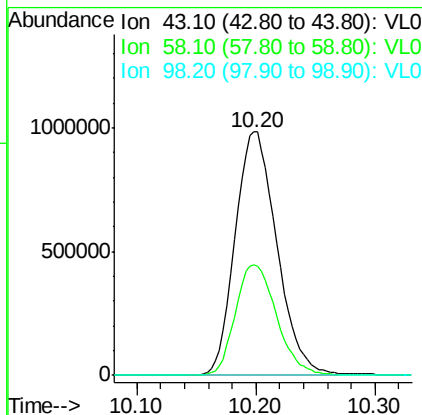
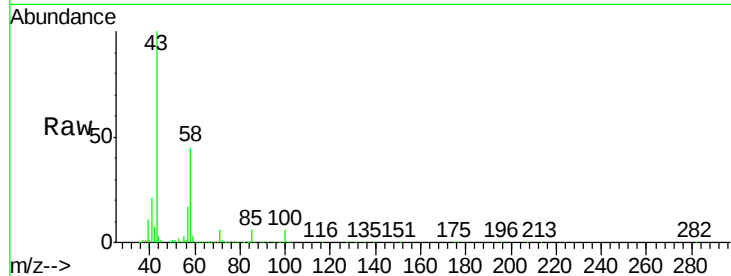
ClientSampleId :

VL0917ABS01

Tot Ion:	43	Resp:	2387170
Ion	Ratio	Lower	Upper
43	100		
58	45.1	36.2	54.4
98	0.2	0.2	0.2

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#52

Tetrachloroethene

Concen: 8.186 ppbv

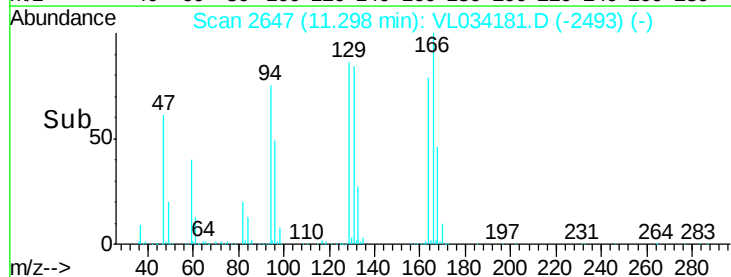
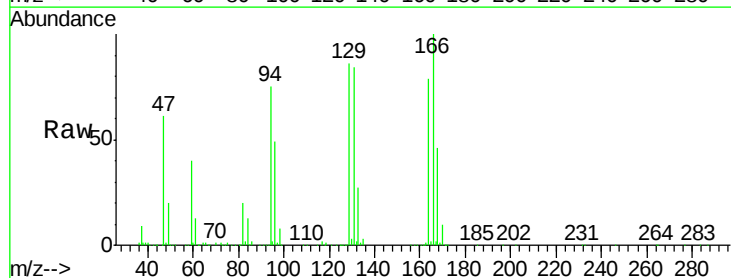
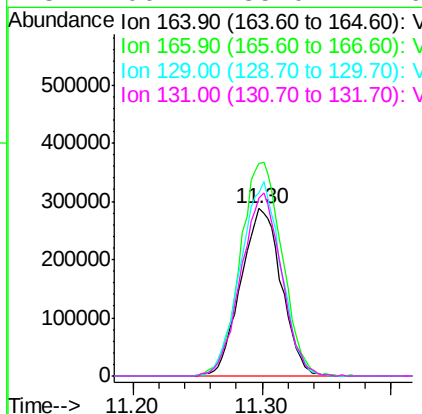
RT: 11.30 min Scan# 2647

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:	164	Resp:	629887
Ion	Ratio	Lower	Upper
164	100		
166	127.0	96.7	145.1
129	109.6	82.8	124.2
131	106.1	85.0	127.6





#53

Toluene

Concen: 8.955 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 91 Resp: 2279265

Ion Ratio Lower Upper

91 100

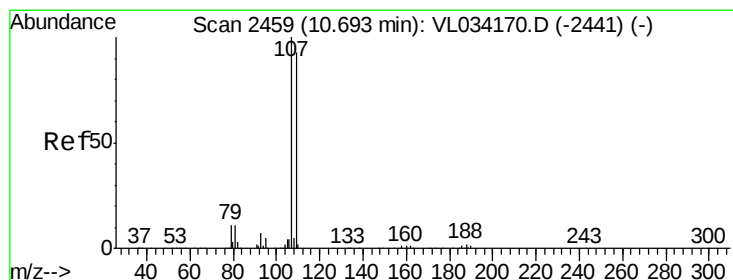
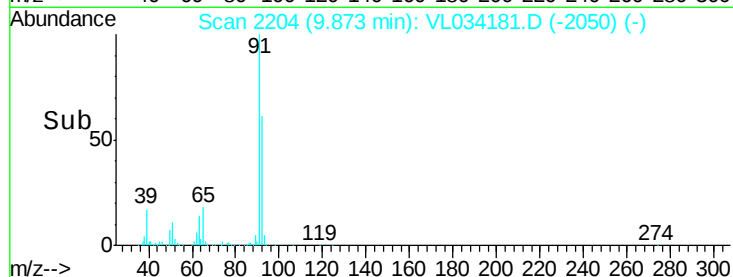
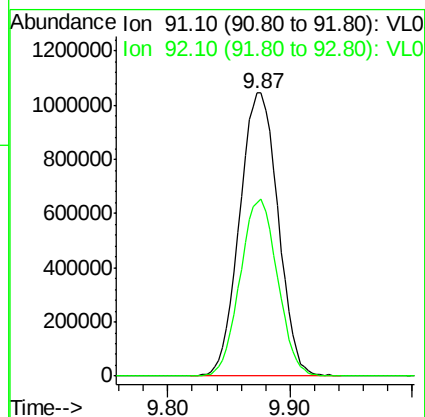
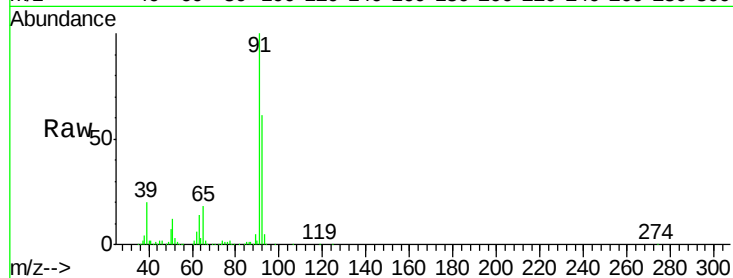
92 60.5 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.190 ppbv

RT: 10.68 min Scan# 2456

Delta R.T. -0.01 min

Lab File: VL034181.D

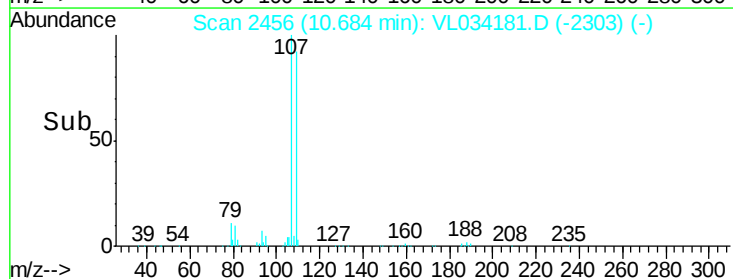
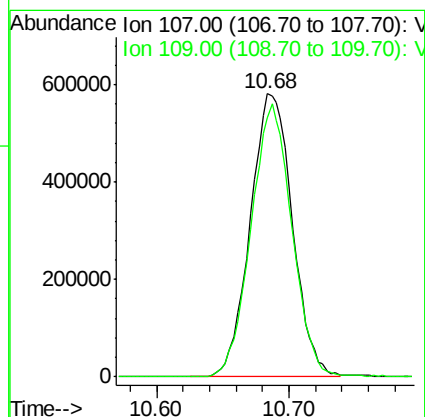
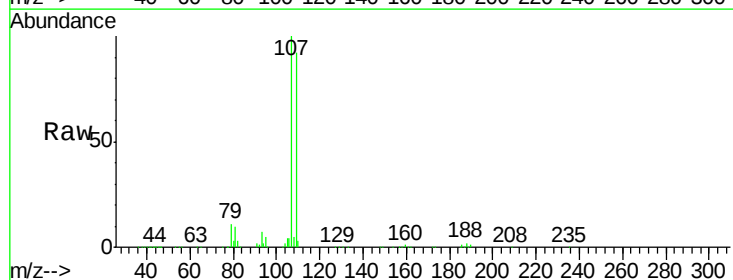
Acq: 17 Sep 2019 12:52

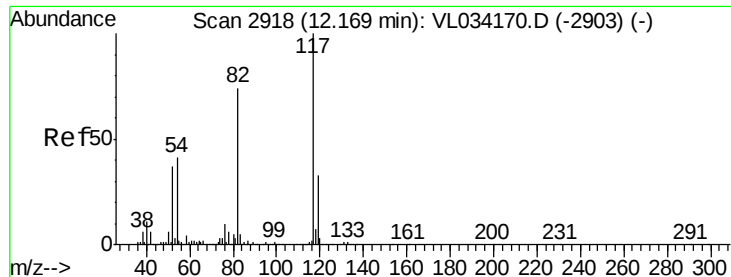
Tgt Ion: 107 Resp: 1284222

Ion Ratio Lower Upper

107 100

109 91.6 74.5 111.7





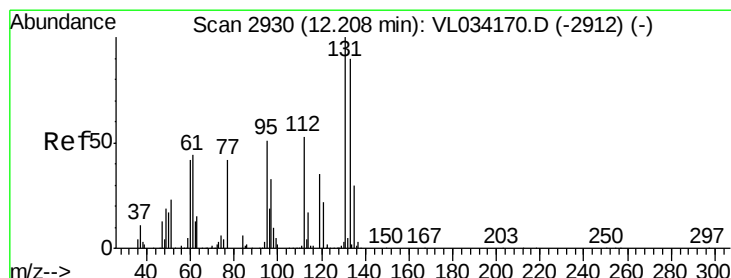
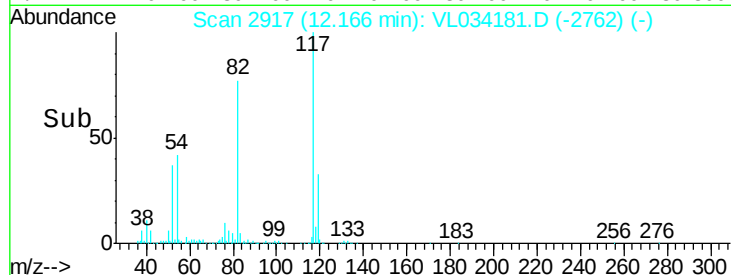
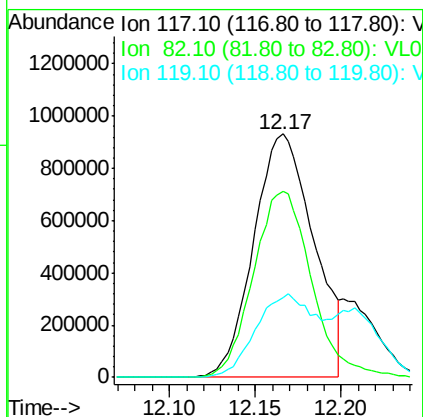
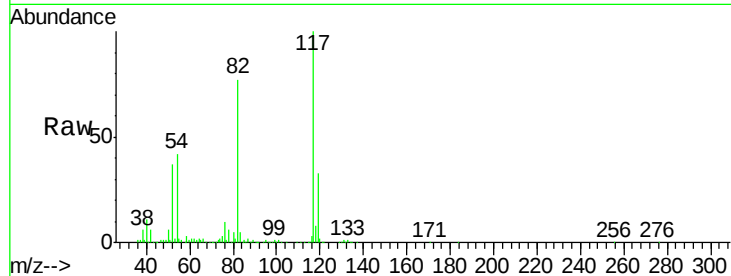
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	74.5	58.2	87.4
119	56.8	23.7	35.5#

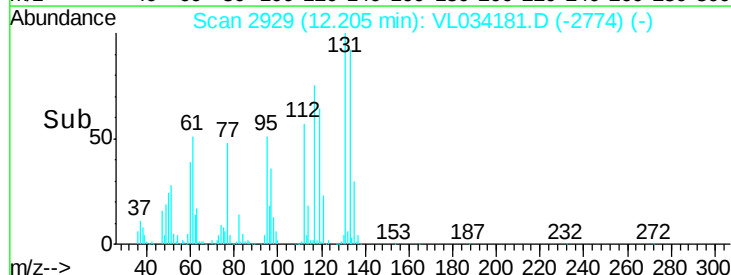
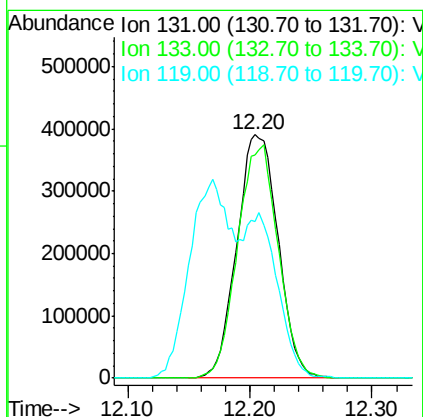
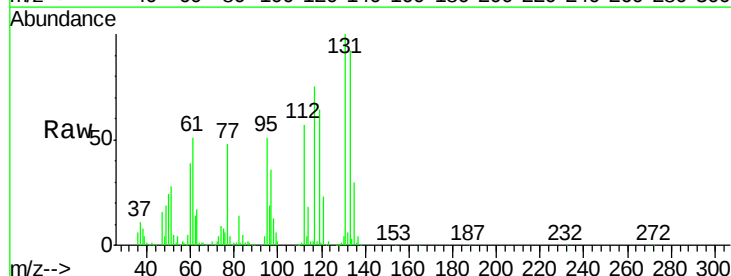
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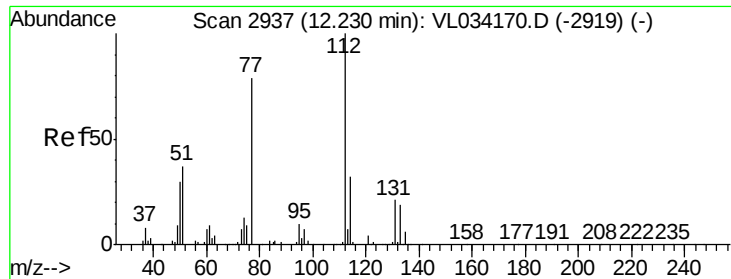
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.060 ppbv
RT: 12.20 min Scan# 2929
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	75.1	112.7
119	140.5	47.4	71.0#





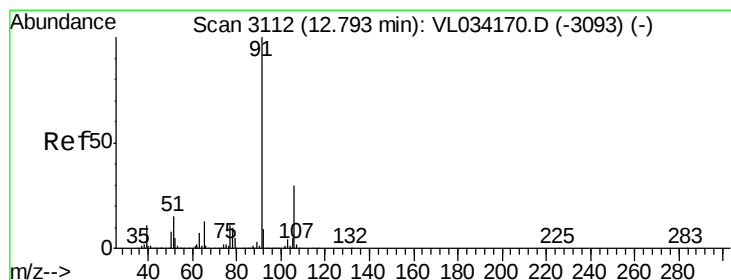
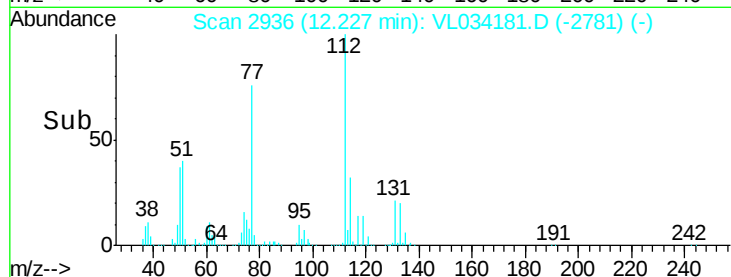
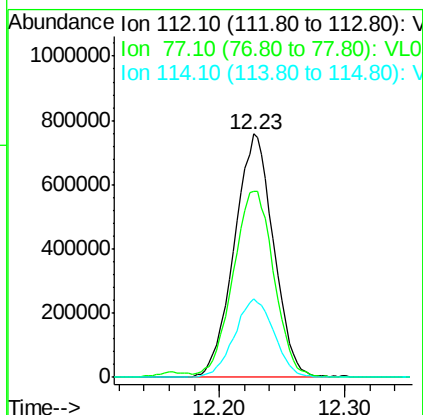
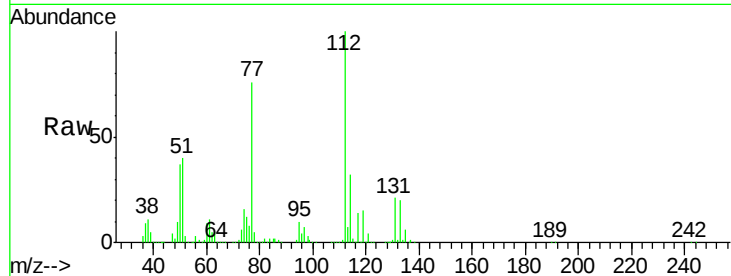
#57
Chlorobenzene
Concen: 8.348 ppbv
RT: 12.23 min Scan# 2936
Delta R.T. -0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Instrument :
MSVOA_L
ClientSampleId :
VL0917ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.1	64.3	96.5
114	32.1	28.9	35.3

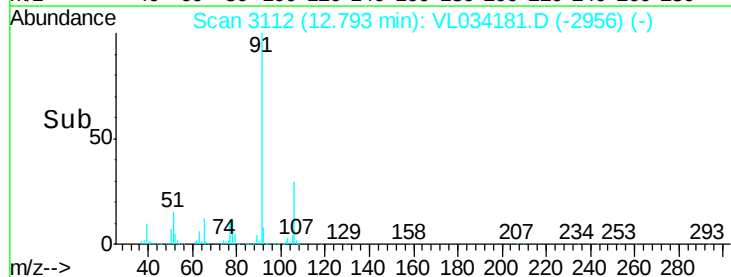
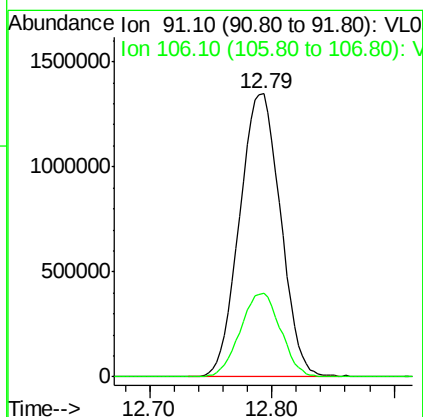
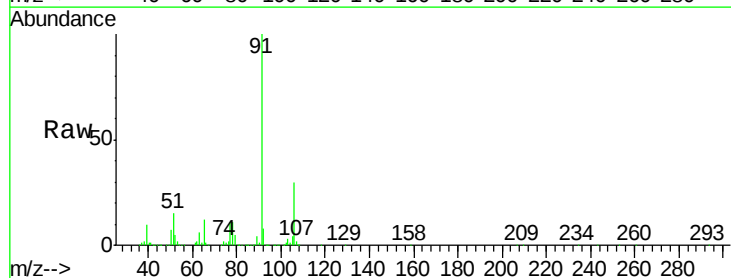
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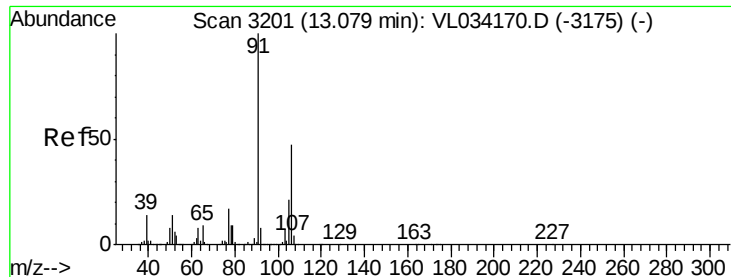
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9/20/2019 12:44:07 AM



#58
Ethyl Benzene
Concen: 8.610 ppbv
RT: 12.79 min Scan# 3112
Delta R.T. 0.00 min
Lab File: VL034181.D
Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.2	36.4





#59

m/p-Xylene

Concen: 16.968 ppbv m

RT: 13.06 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 91 Resp: 5113686

Ion Ratio Lower Upper

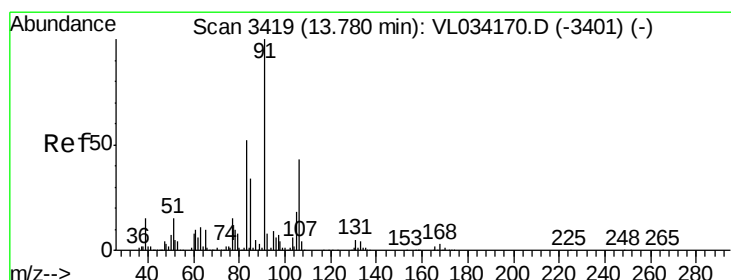
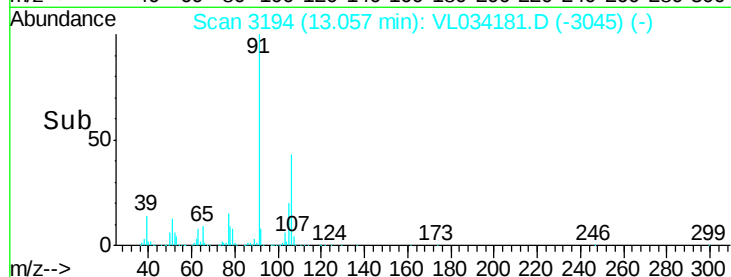
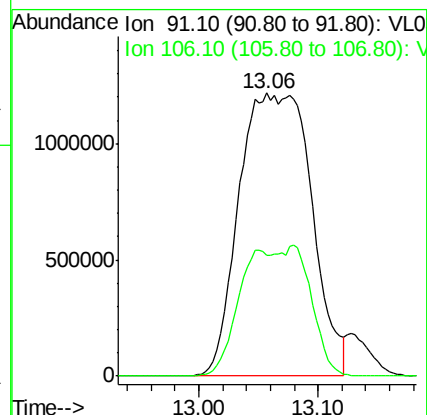
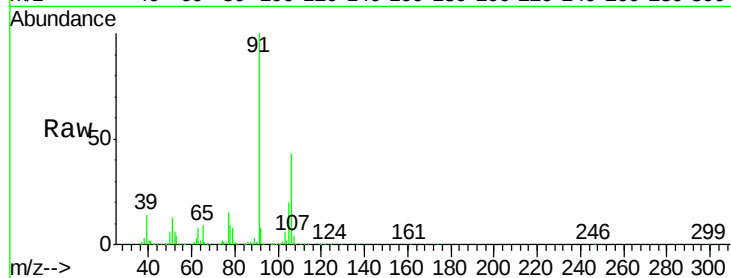
91 100

106 43.5 35.5 53.3

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#60

o-Xylene

Concen: 8.468 ppbv

RT: 13.78 min Scan# 3419

Delta R.T. 0.00 min

Lab File: VL034181.D

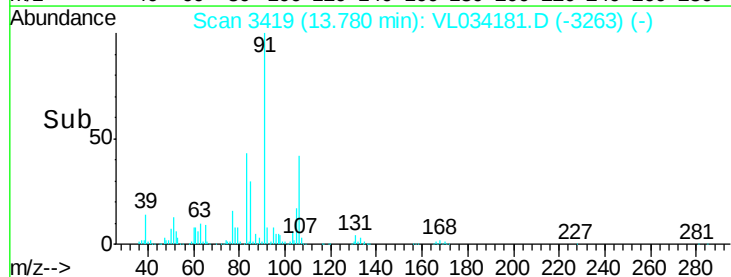
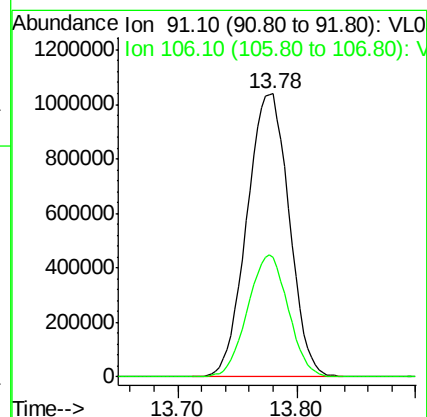
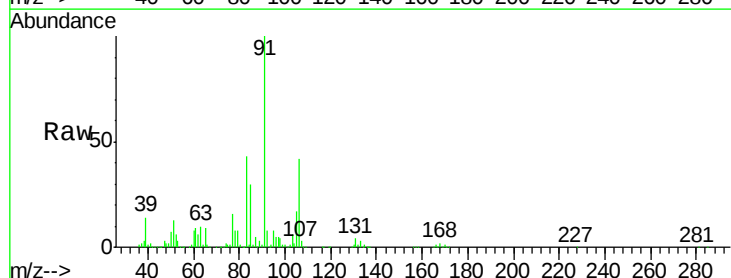
Acq: 17 Sep 2019 12:52

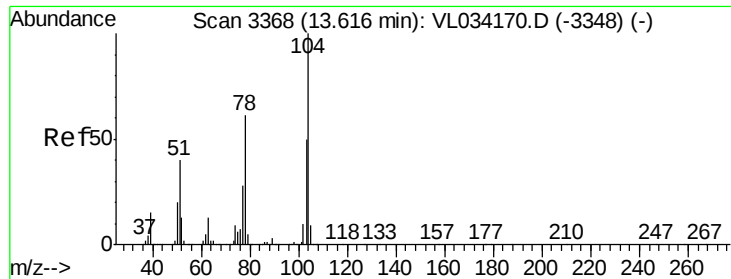
Tgt Ion: 91 Resp: 2551772

Ion Ratio Lower Upper

91 100

106 41.5 21.2 63.6





#61

Stvrene

Concen: 8.938 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:104 Resp: 1929274

Ion Ratio Lower Upper

104 100

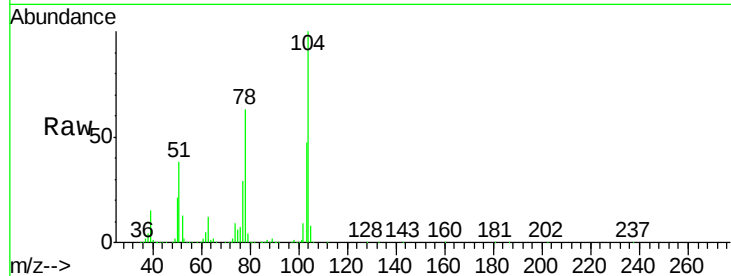
78 61.5 49.7 74.5

103 48.3 38.4 57.6

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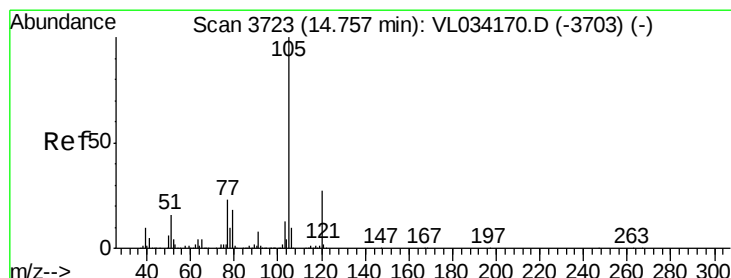
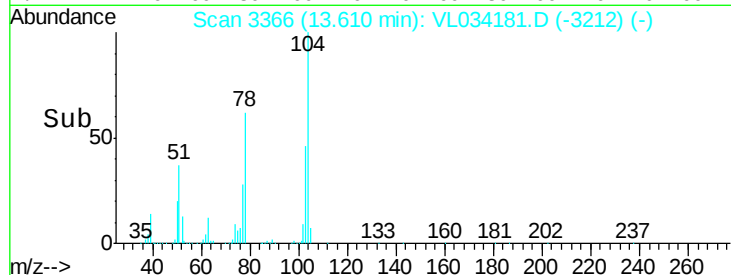
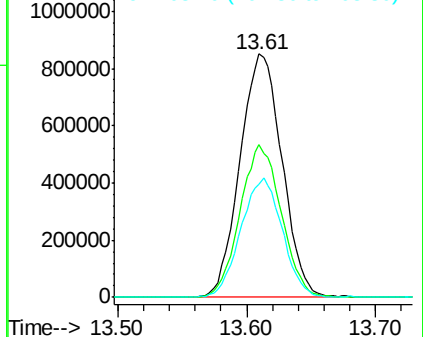
9/20/2019 12:44:07 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.503 ppbv

RT: 14.75 min Scan# 3721

Delta R.T. -0.01 min

Lab File: VL034181.D

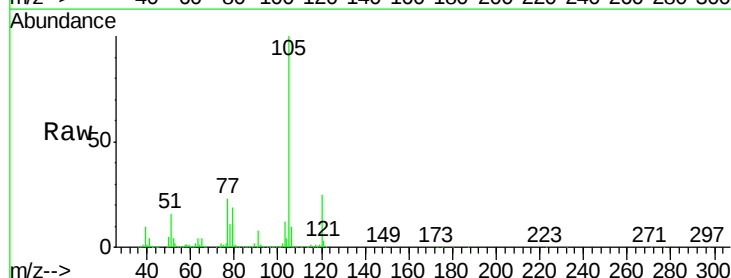
Acq: 17 Sep 2019 12:52

Tgt Ion:105 Resp: 3317202

Ion Ratio Lower Upper

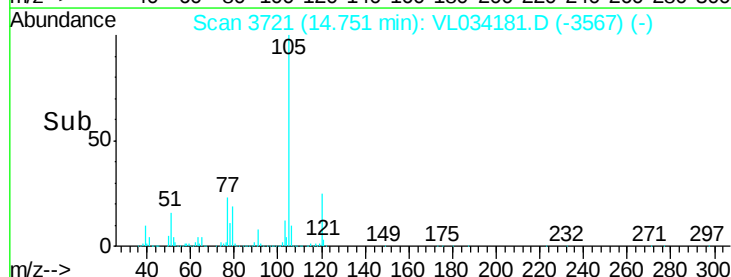
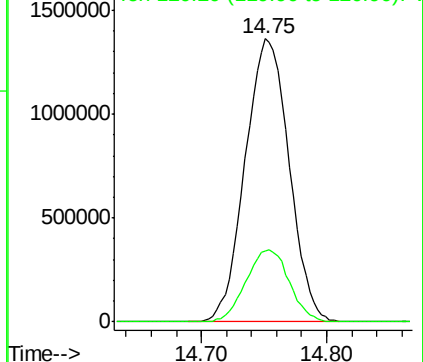
105 100

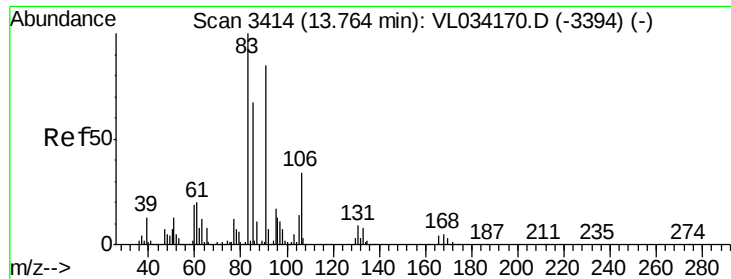
120 25.2 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





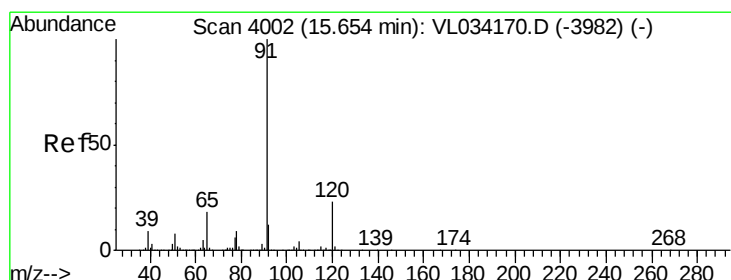
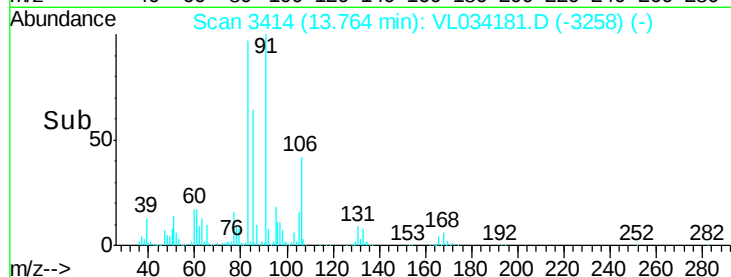
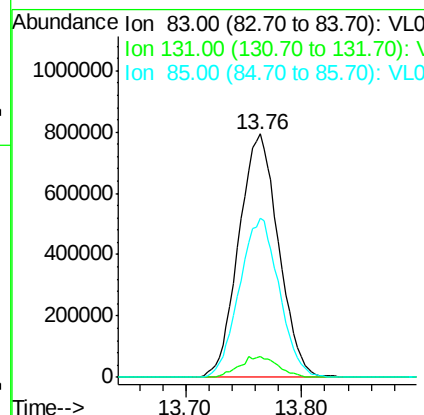
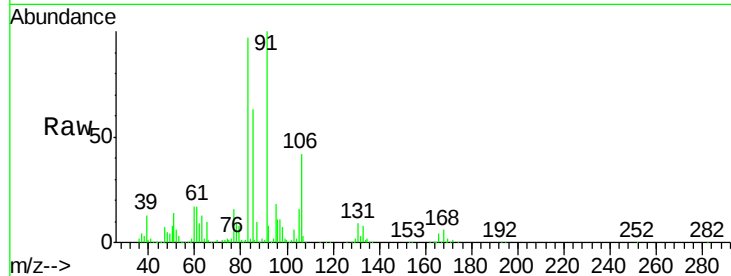
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.630 ppbv
 RT: 13.76 min Scan# 3414
 Delta R.T. 0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	83	Resp	1885339
Ion Ratio	100	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.5	32.8	98.4

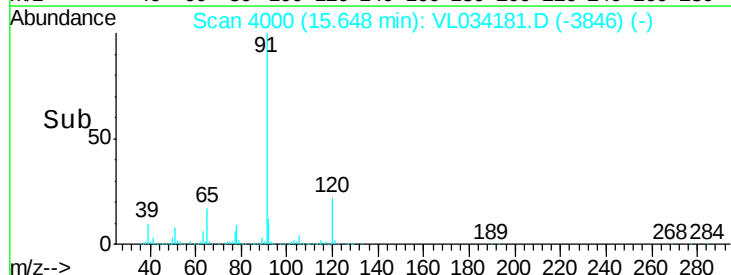
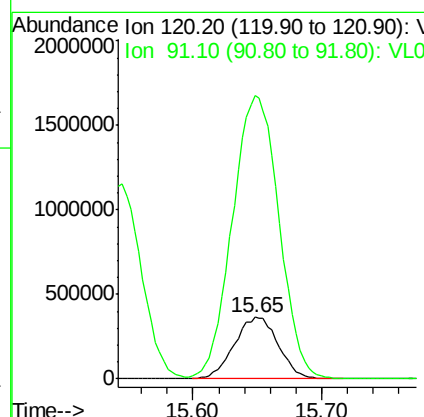
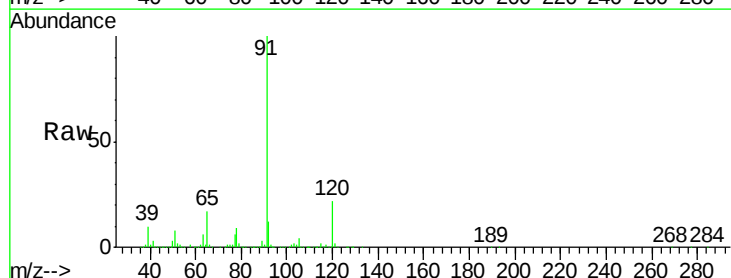
Manual Integrations
 APPROVED

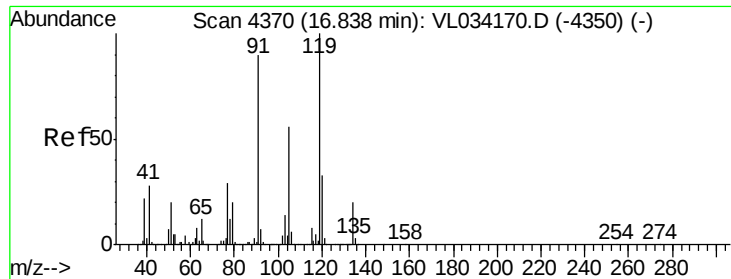
MMDadoda
 9/20/2019 12:44:07 AM



#64
 n-propylbenzene
 Concen: 8.716 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. -0.01 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	120	Resp	860212
Ion Ratio	100	Lower	Upper
120	100		
91	487.8	378.2	567.2





#65

tert-Butylbenzene

Concen: 8.364 ppbv

RT: 16.83 min Scan# 4369

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:119 Resp: 2850908

Ion Ratio Lower Upper

119 100

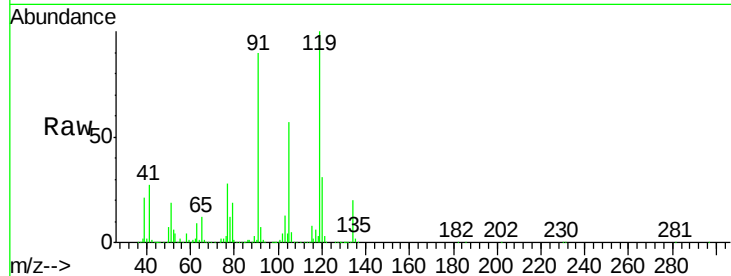
91 93.5 74.9 112.3

134 19.6 15.8 23.6

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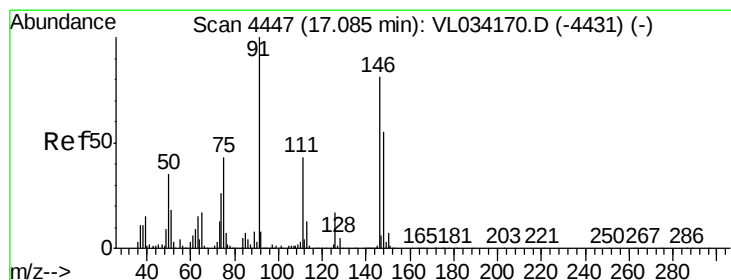
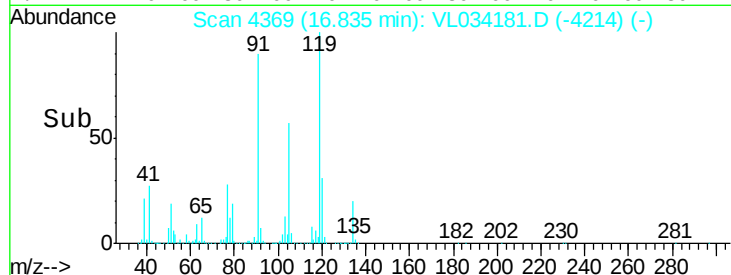
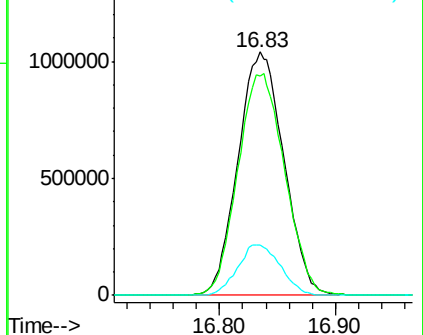
9/20/2019 12:44:07 AM



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: 11.809 ppbv

RT: 17.09 min Scan# 4447

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

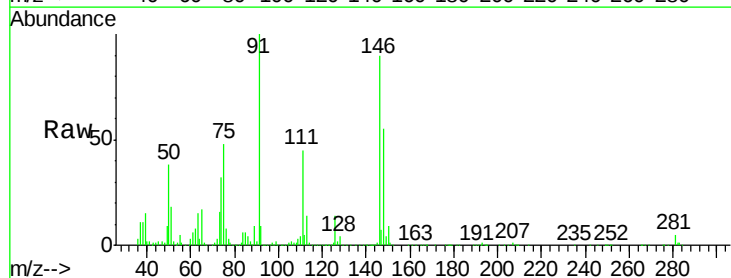
Tgt Ion: 91 Resp: 1424083

Ion Ratio Lower Upper

91 100

126 15.1 12.6 19.0

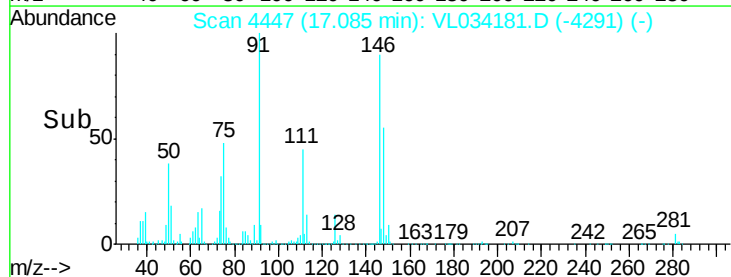
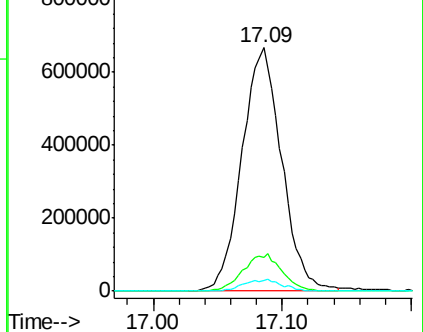
128 4.8 4.0 6.0

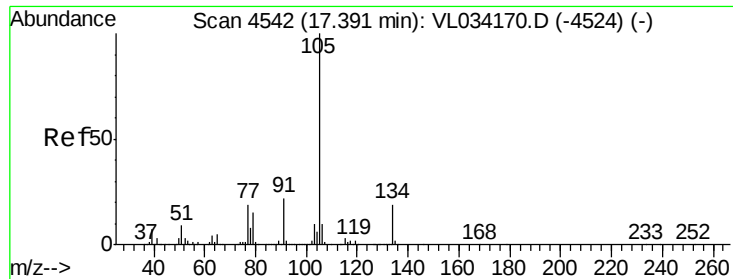


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.418 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:105 Resp: 4103262

Ion Ratio Lower Upper

105 100

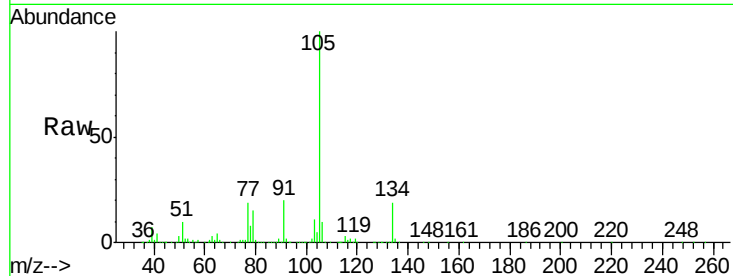
134 17.9 14.6 22.0

Manual Integrations

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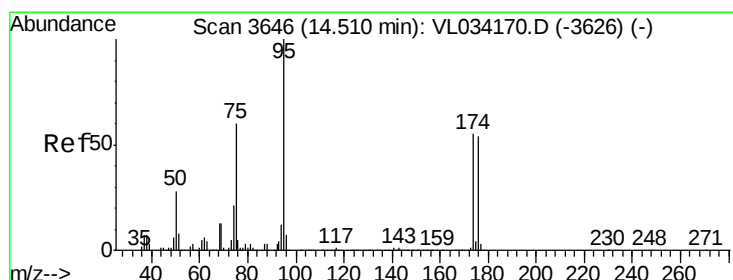
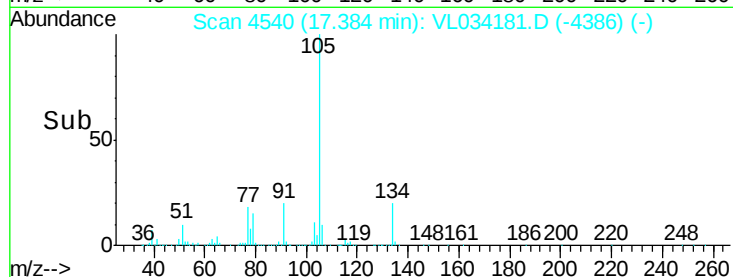
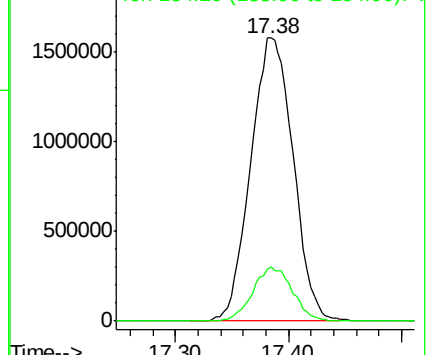
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.695 ppbv

RT: 14.50 min Scan# 3643

Delta R.T. -0.01 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

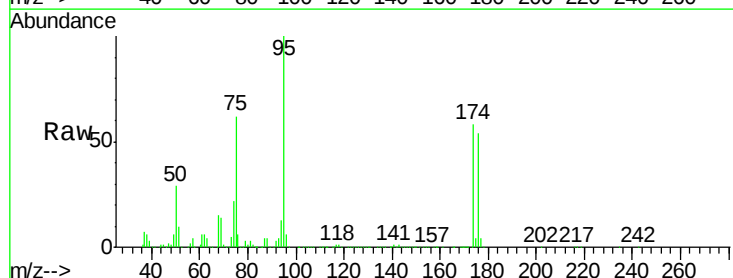
Tgt Ion: 95 Resp: 1899766

Ion Ratio Lower Upper

95 100

174 57.3 45.1 67.7

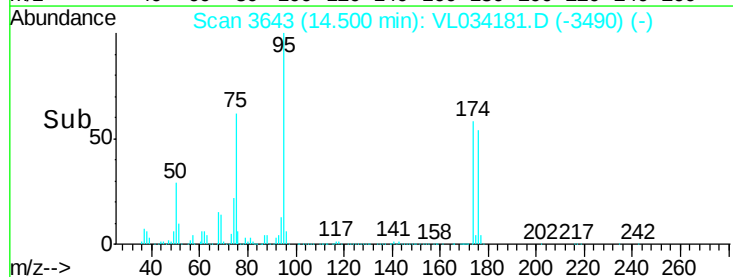
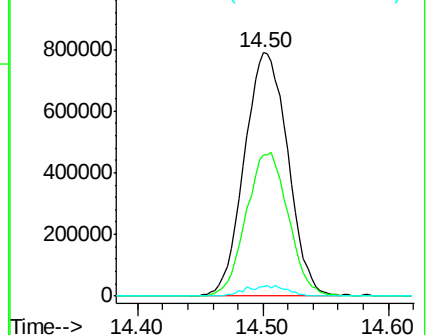
175 4.2 3.3 4.9

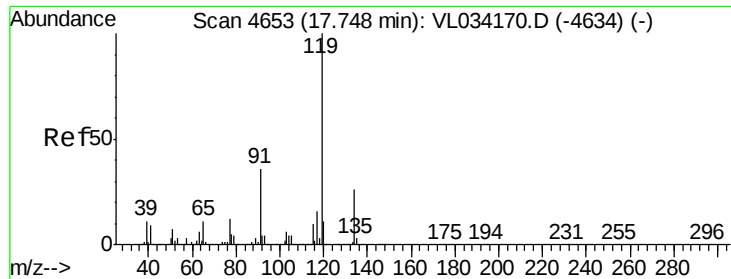


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





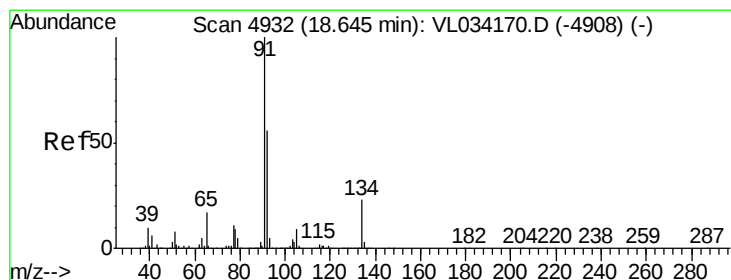
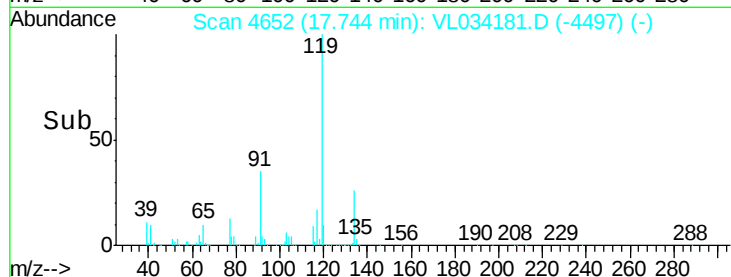
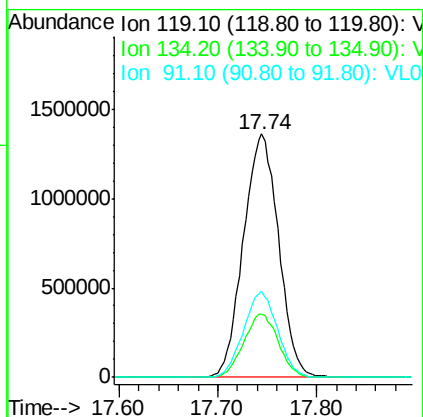
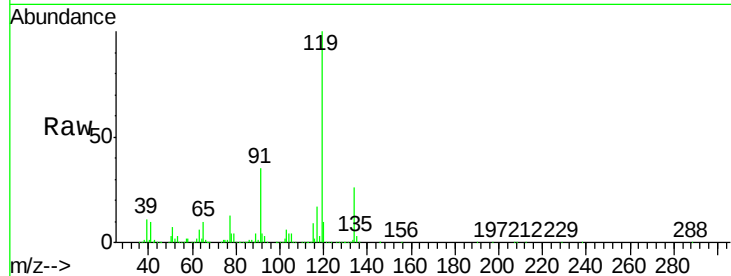
#69
 p-Isopropyltoluene
 Concen: 8.493 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.6	30.8
91	34.2	27.6	41.4

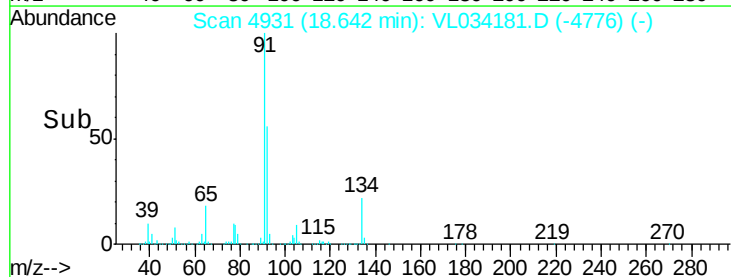
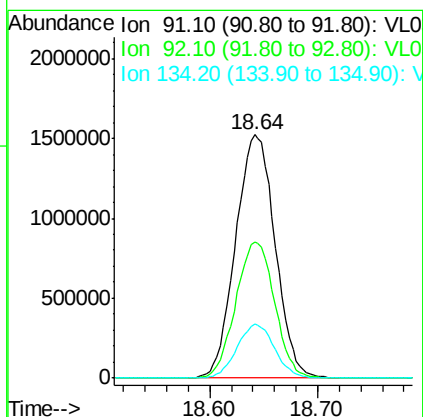
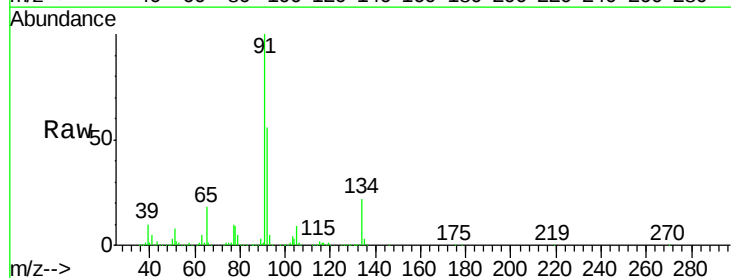
Manual Integrations
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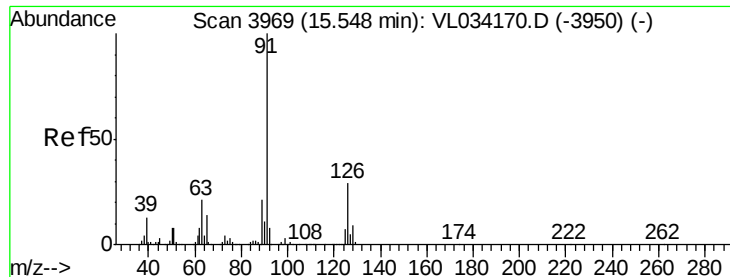
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 9/20/2019 12:44:07 AM



#70
 n-Butylbenzene
 Concen: 8.402 ppbv
 RT: 18.64 min Scan# 4931
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.4	44.8	67.2
134	21.2	17.3	25.9





#71

2-Chlorotoluene

Concen: 8.708 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion: 91 Resp: 2775485

Ion Ratio Lower Upper

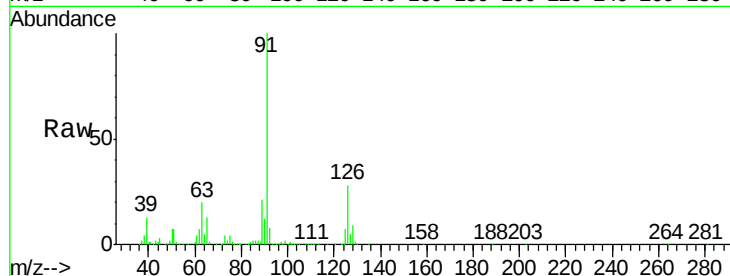
91 100

126 27.7 11.2 45.0

Manual Integrations
APPROVED

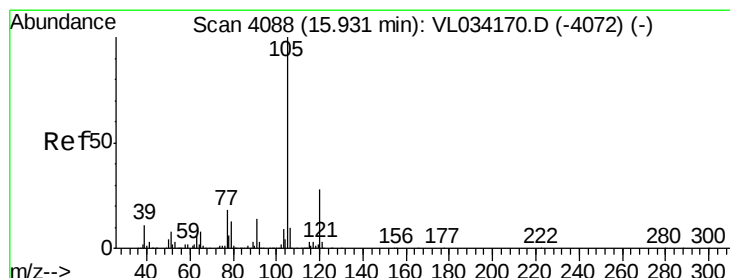
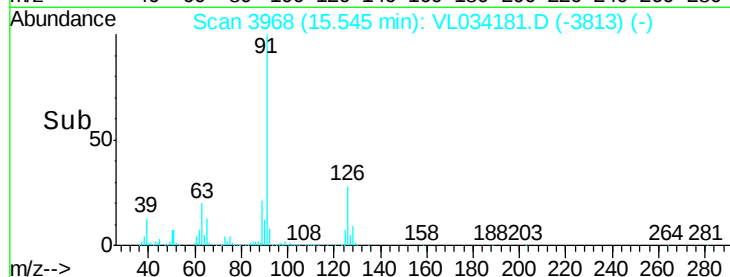
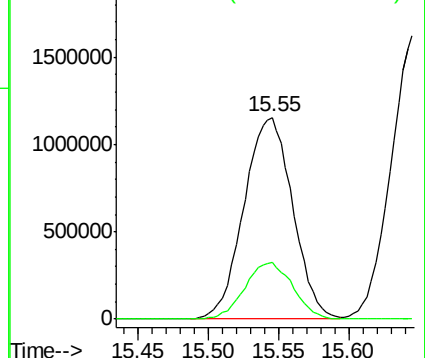
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.625 ppbv

RT: 15.93 min Scan# 4087

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:105 Resp: 2936599

Ion Ratio Lower Upper

105 100

120 29.4 23.3 34.9

91 14.4 11.4 17.2

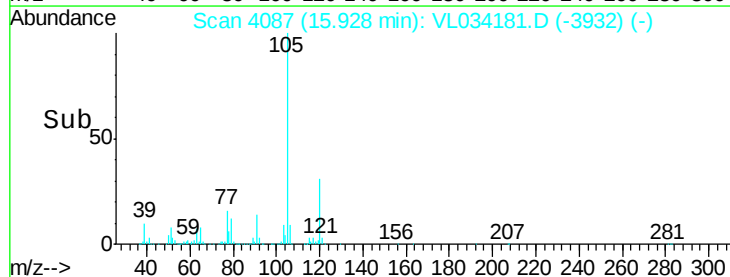
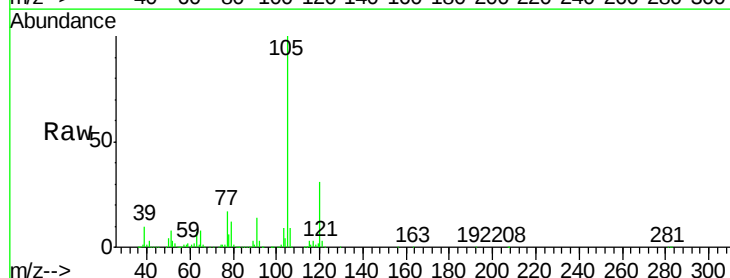
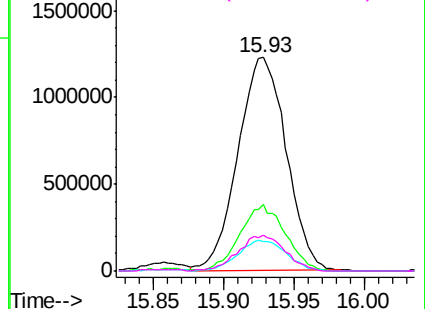
77 16.4 13.3 19.9

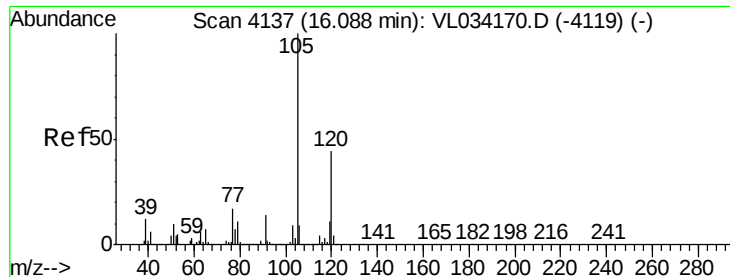
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 8.547 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:105 Resp: 2811230

Ion Ratio Lower Upper

105 100

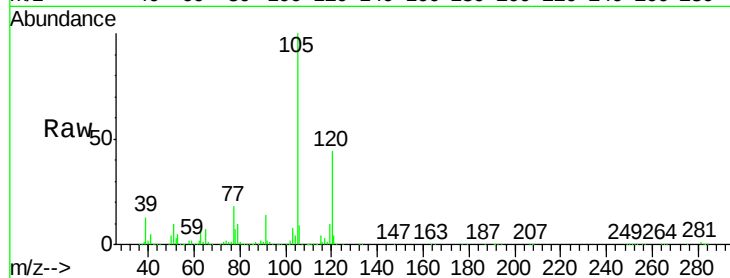
120 43.6 35.6 53.4

Manual Integrations

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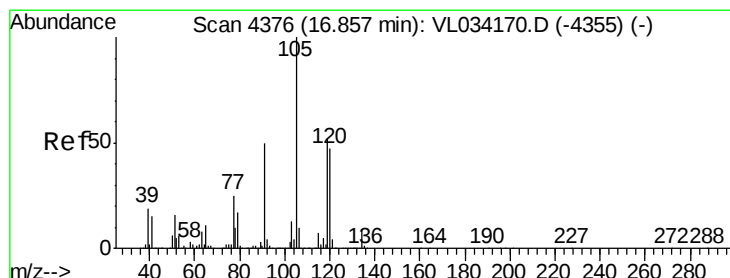
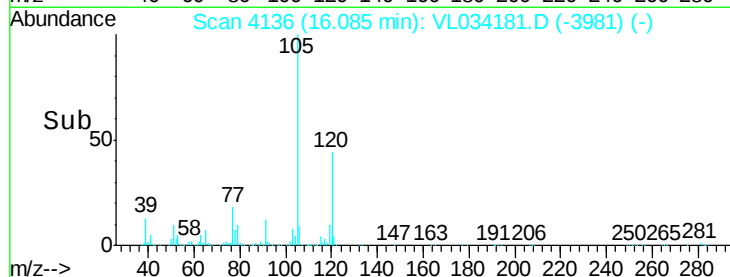
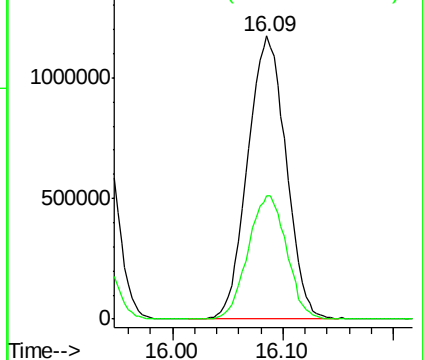
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.225 ppbv

RT: 16.86 min Scan# 4376

Delta R.T. 0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Tgt Ion:105 Resp: 2872670

Ion Ratio Lower Upper

105 100

120 45.5 37.5 56.3

91 42.8 41.1 61.7

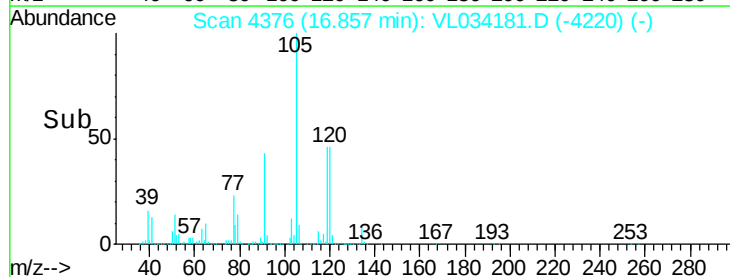
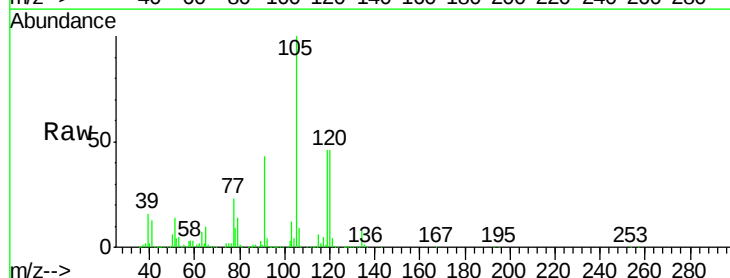
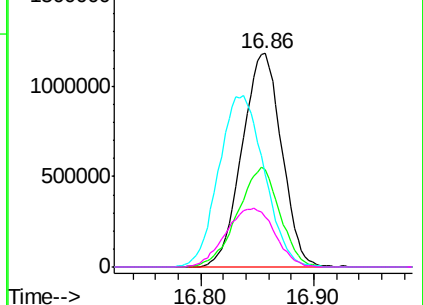
77 23.2 19.9 29.9

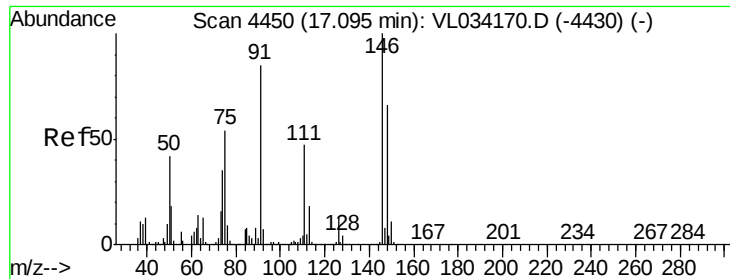
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





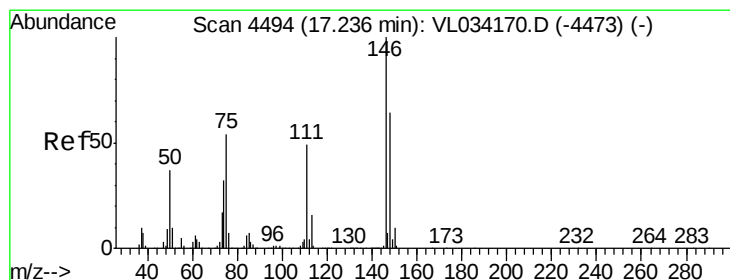
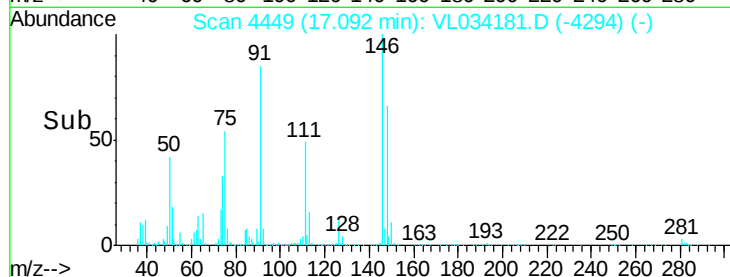
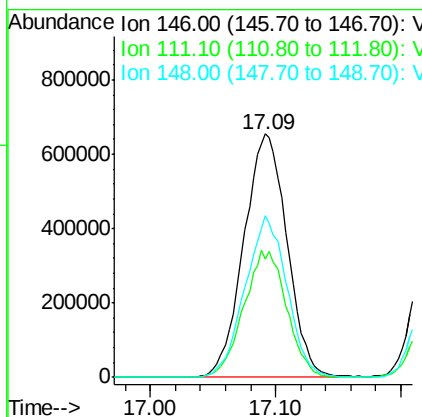
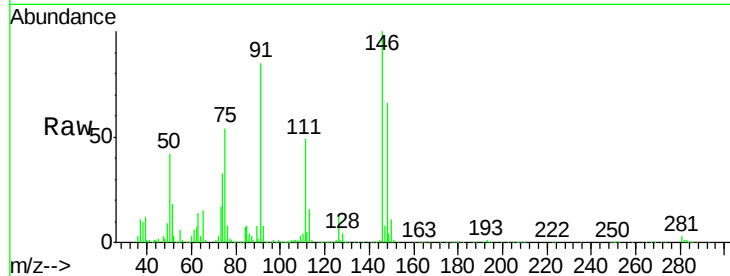
#75
 1,3-Dichlorobenzene
 Concen: 8.355 ppbv
 RT: 17.09 min Scan# 4449
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.7	25.9	77.8
148	64.4	32.6	97.7

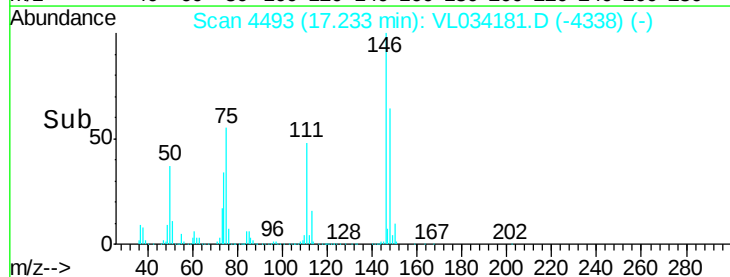
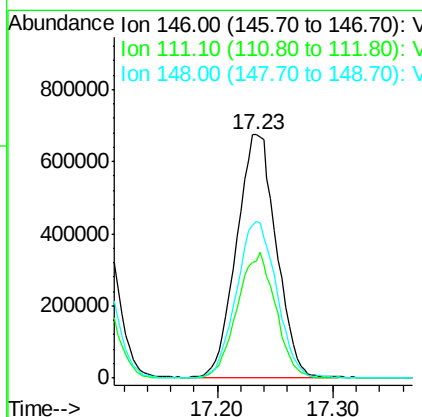
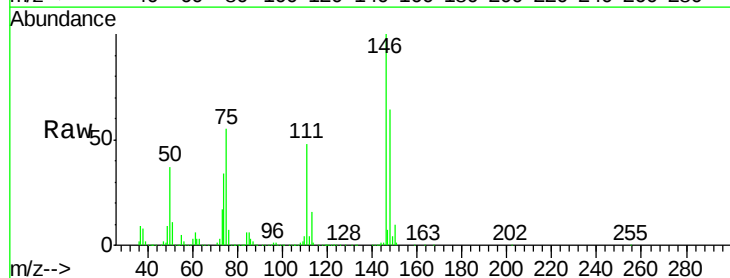
Manual Integrations
 APPROVED

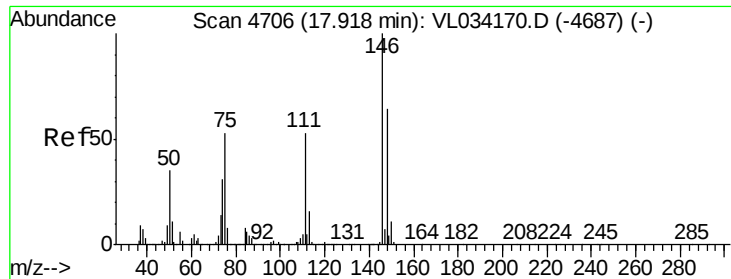
MMDadoda
 9/20/2019 12:44:07 AM



#76
 1,4-Dichlorobenzene
 Concen: 8.364 ppbv
 RT: 17.23 min Scan# 4493
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.1	24.6	74.0
148	65.2	32.4	97.0





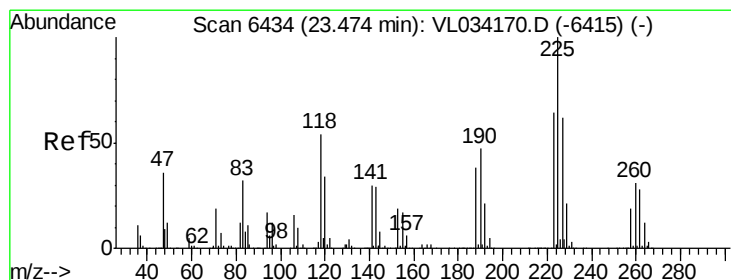
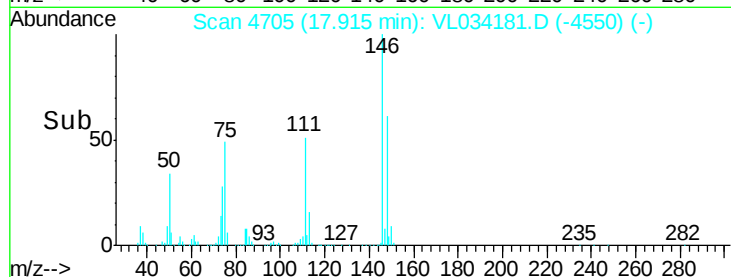
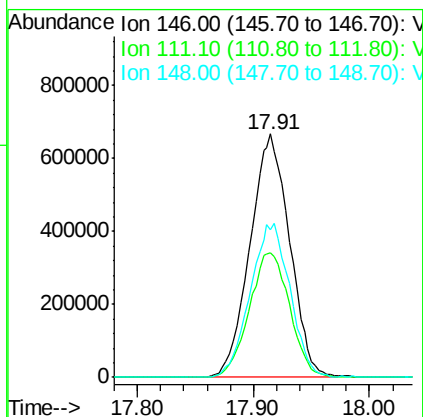
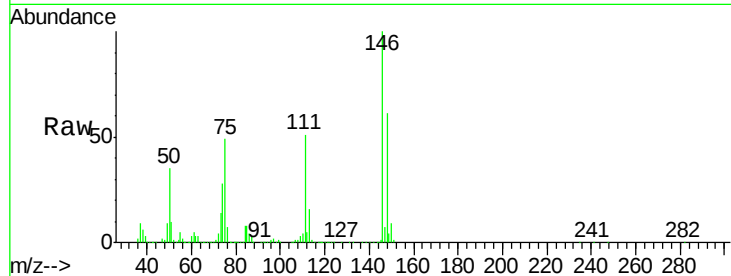
#77
 1,2-Dichlorobenzene
 Concen: 8.315 ppbv
 RT: 17.91 min Scan# 4705
 Delta R.T. -0.00 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.7	26.1	78.3
148	63.9	31.9	95.9

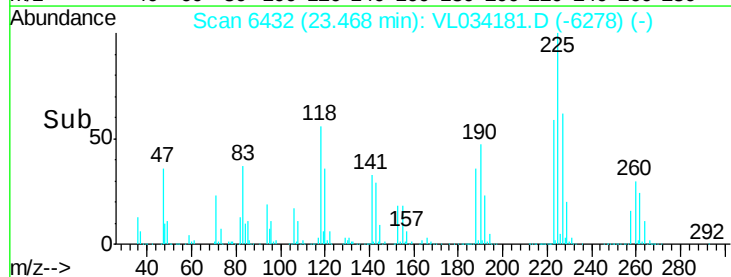
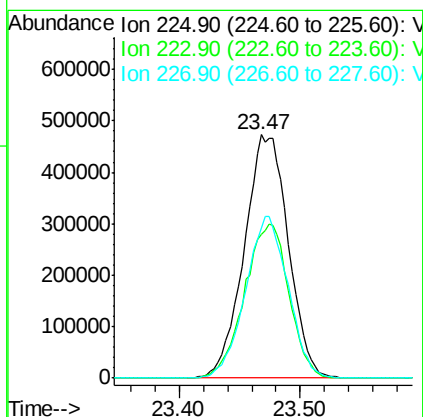
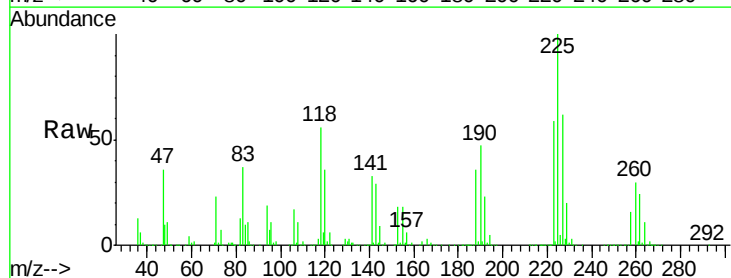
Manual Integrations
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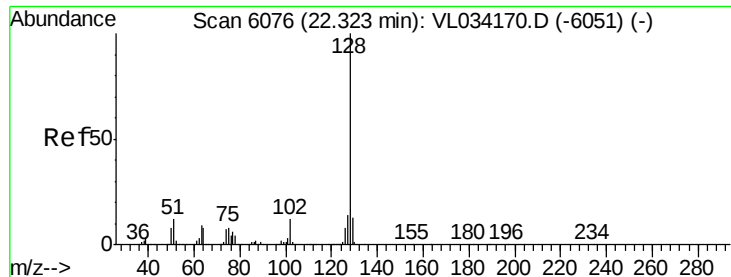
MMDadoda
 9/20/2019 12:44:07 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 9.586 ppbv
 RT: 23.47 min Scan# 6432
 Delta R.T. -0.01 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	51.7	77.5#
227	0.0	52.1	78.1#





#79

Naphthalene

Concen: 9.456 ppbv

RT: 22.32 min Scan# 6075

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

Instrument :

MSVOA_L

ClientSampleId :

VL0917ABS01

Tot Ion:128 Resp: 2907426

Ion Ratio Lower Upper

128 100

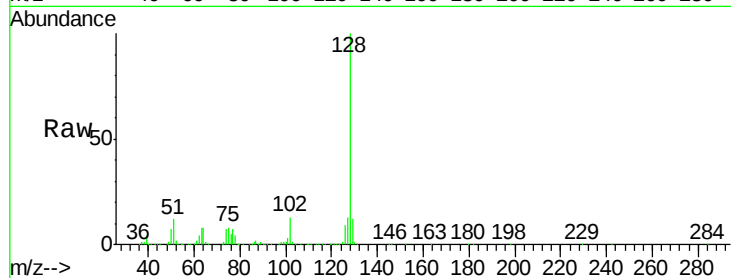
127 13.0 11.1 16.7

129 11.9 10.2 15.4

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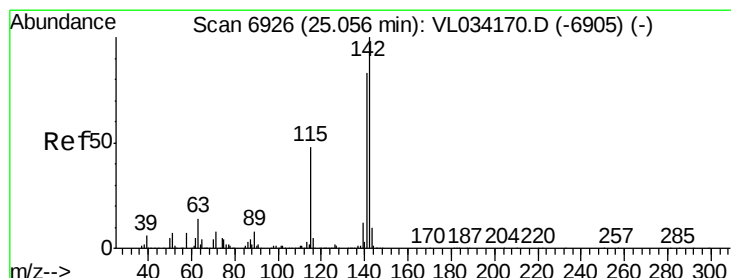
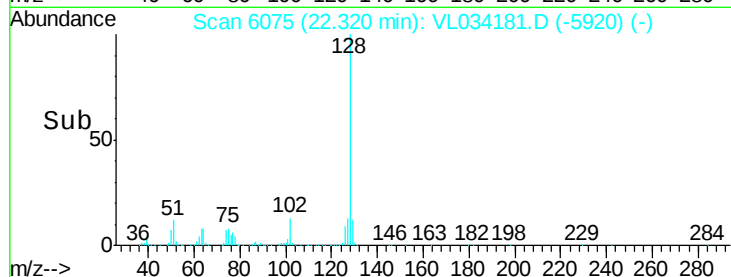
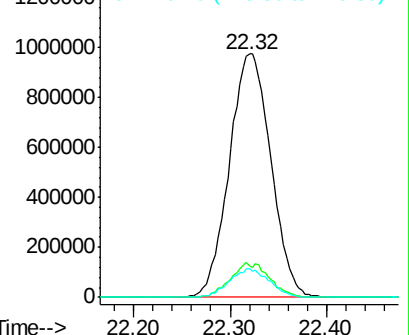
9/20/2019 12:44:07 AM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.604 ppbv

RT: 25.05 min Scan# 6925

Delta R.T. -0.00 min

Lab File: VL034181.D

Acq: 17 Sep 2019 12:52

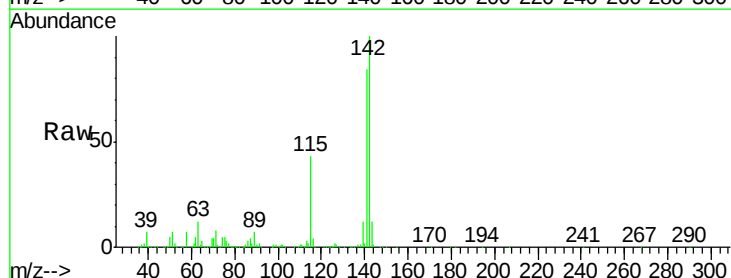
Tgt Ion:142 Resp: 1230275

Ion Ratio Lower Upper

142 100

141 84.4 67.6 101.4

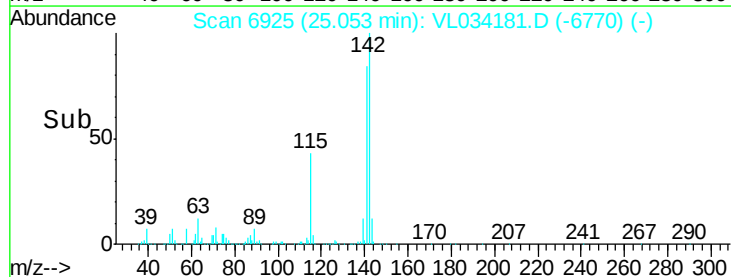
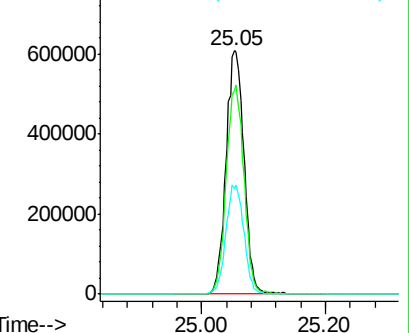
115 44.9 36.9 55.3

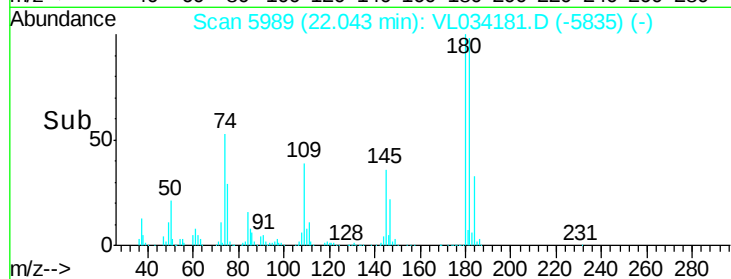
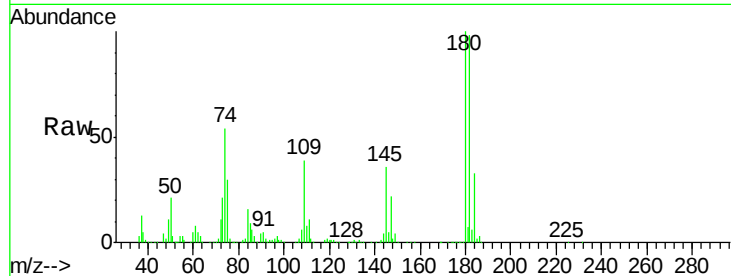
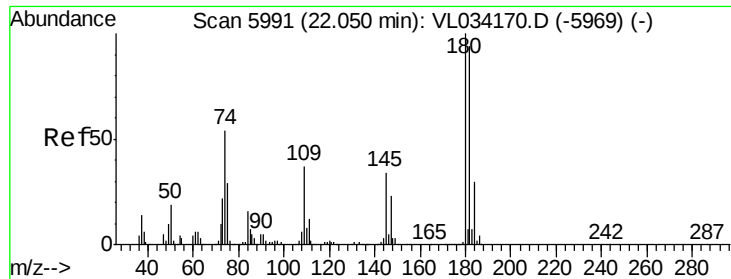


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 8.383 ppbv
 RT: 22.04 min Scan# 5989
 Delta R.T. -0.01 min
 Lab File: VL034181.D
 Acq: 17 Sep 2019 12:52

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.4	116.2
184	31.2	25.0	37.4

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0917ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/20/2019 12:44:07 AM

