

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
 Data File : VL034296.D
 Acq On : 15 Oct 2019 00:37
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:43 AM

Quant Time: Oct 15 07:45:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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)
1) Bromochloromethane	5.69	49	997916	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1718769	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.16	117	1872732	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1603285	9.85	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1726464	11.712	ppbv	97
3) Chlorodifluoromethane	2.97	51	1119608	9.569	ppbv	99
4) Chloromethane	3.12	50	650497	9.461	ppbv	99
5) Vinyl Chloride	3.24	62	587957	9.357	ppbv	97
6) Bromomethane	3.46	94	294487	10.045	ppbv	97
7) Chloroethane	3.55	64	221857	10.101	ppbv	92
8) Dichlorotetrafluoroethane	3.17	85	1286489	9.889	ppbv	99
9) Propene	2.99	41	510993	8.852	ppbv	98
10) Heptane	8.17	43	1369336	9.102	ppbv	99
11) Trichlorofluoromethane	3.94	101	1416045	10.554	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	928557	10.575	ppbv	100
13) Ethanol	3.60	45	111802	7.998	ppbv	96
14) Bromoethene	3.73	108	377695	10.521	ppbv	99
15) Acetone	3.84	43	1193650	8.925	ppbv	97
16) 1,3-Butadiene	3.31	39	586473	10.048	ppbv	99
17) tert-Butyl alcohol	4.30	59	835751	9.862	ppbv	100
18) 1,1-Dichloroethene	4.29	96	412551	10.772	ppbv	97
19) Isopropyl Alcohol	3.97	45	755573	9.187	ppbv	99
20) Methylene Chloride	4.35	84	382873	9.929	ppbv	97
21) Allyl Chloride	4.41	41	802647	10.625	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	424837	11.087	ppbv	98
23) Vinyl Acetate	5.09	43	1845981	9.366	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1259194	9.488	ppbv	100
25) Ethyl Acetate	5.70	43	2330407	9.214	ppbv	99
26) Hexane	5.71	57	957569	9.102	ppbv	97
27) Carbon Disulfide	4.56	76	1113326	11.474	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1478713	9.464	ppbv	98
29) Chloroform	5.78	83	1458686	9.703	ppbv	99
30) Cyclohexane	7.17	84	715412	9.419	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1015535	9.469	ppbv	97
32) 1,1,1-Trichloroethane	6.55	97	1421944	9.807	ppbv	99
34) 2-Butanone	5.26	43	1564253	8.913	ppbv	98
35) Carbon Tetrachloride	7.06	117	1453052	10.176	ppbv	98
36) Benzene	6.93	78	1729068	9.109	ppbv	99
37) 1,2-Dichloroethane	6.34	62	1338856	9.916	ppbv	98
38) Trichloroethene	7.89	130	604142	8.907	ppbv	96
39) 1,2-Dichloropropane	7.66	63	748538	8.776	ppbv	98
40) 1,4-Dioxane	7.87	88	252678	9.155	ppbv	# 90
41) Tetrahydrofuran	6.08	42	890058	9.005	ppbv	99
42) Bromodichloromethane	7.84	83	1619274	9.993	ppbv	99
43) Methyl Methacrylate	8.06	69	751230	9.580	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3281748	8.980	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1016106	10.959	ppbv	97
46) cis-1,3-Dichloropropene	8.76	75	1131054	10.141	ppbv	99
47) 1,1,2-Trichloroethane	9.53	97	702275	9.170	ppbv	96
48) Dibromochloromethane	10.37	129	1233602	10.162	ppbv	100
49) Bromoform	13.12	173	1011570	10.298	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2340451	9.164	ppbv	97
51) 2-Hexanone	10.19	43	1925966	8.985	ppbv #	99
52) Tetrachloroethene	11.29	164	533306	8.503	ppbv	96
53) Toluene	9.86	91	1923039	9.269	ppbv	98
54) 1,2-Dibromoethane	10.68	107	1072920	9.420	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.19	131	810592	9.706	ppbv	98
57) Chlorobenzene	12.22	112	1415714	8.683	ppbv	98
58) Ethyl Benzene	12.78	91	2680315	8.870	ppbv	98
59) m/p-Xylene	13.06	91	4473692m	17.875	ppbv	
60) o-Xylene	13.76	91	2244030	8.967	ppbv	99
61) Styrene	13.60	104	1598881	8.919	ppbv	100
62) Isopropylbenzene	14.74	105	2896069	8.939	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.75	83	1640795	7.995	ppbv	100
64) n-propylbenzene	15.64	120	728783	8.892	ppbv	90
65) tert-Butylbenzene	16.82	119	2466269	8.712	ppbv	99
66) Benzyl Chloride	17.07	91	1203860	12.021	ppbv	98
67) sec-Butylbenzene	17.37	105	3596496	8.885	ppbv	99
69) p-Isopropyltoluene	17.73	119	2894804	8.832	ppbv	99
70) n-Butylbenzene	18.63	91	3333634	8.735	ppbv	97
71) 2-Chlorotoluene	15.53	91	2318756	8.760	ppbv	99
72) 4-Ethyltoluene	15.91	105	2533606	8.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2426242	8.882	ppbv	100
74) 1,2,4-Trimethylbenzene	16.84	105	2475640	8.536	ppbv	97
75) 1,3-Dichlorobenzene	17.08	146	1323479	8.505	ppbv	100
76) 1,4-Dichlorobenzene	17.22	146	1322659	8.299	ppbv	98
77) 1,2-Dichlorobenzene	17.90	146	1321006	8.387	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	976502	9.360	ppbv	99
79) Naphthalene	22.31	128	2102688	8.235	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	816928	6.880	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1153491	8.155	ppbv	98

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

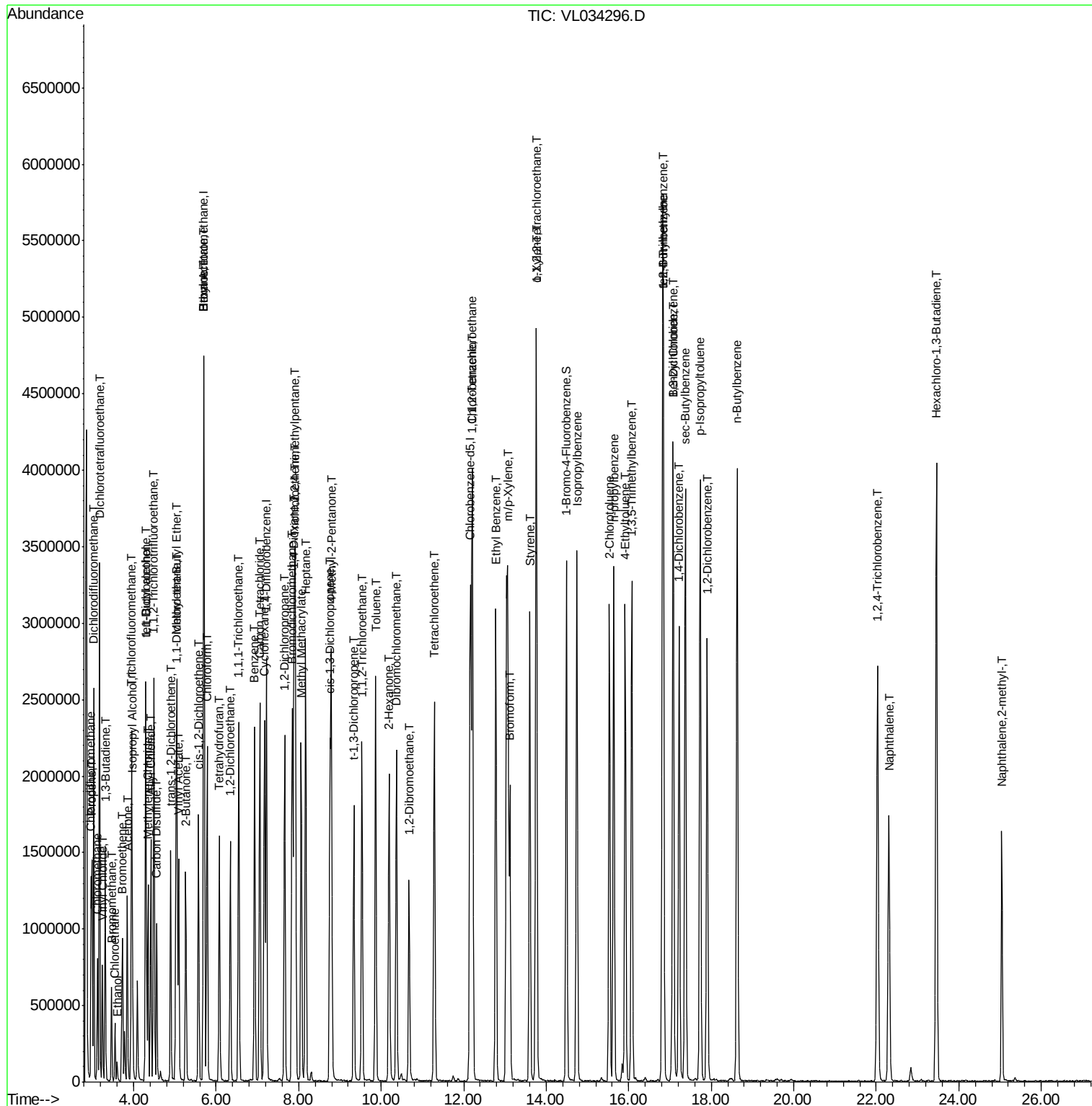
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101419\  
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Operator  : SY/AP  
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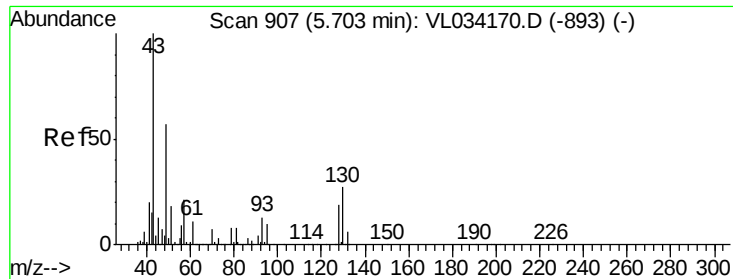
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 904

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

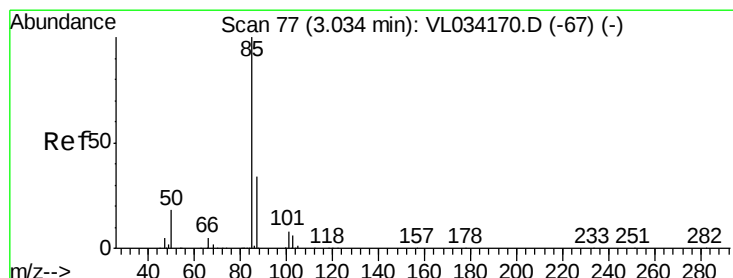
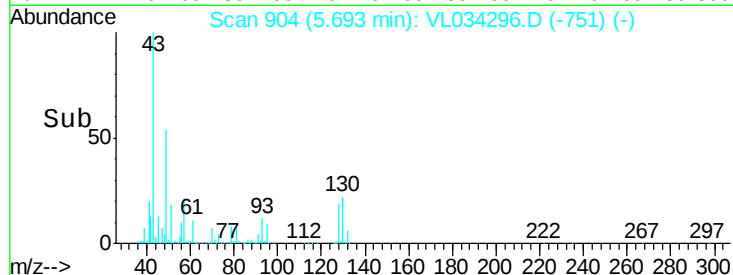
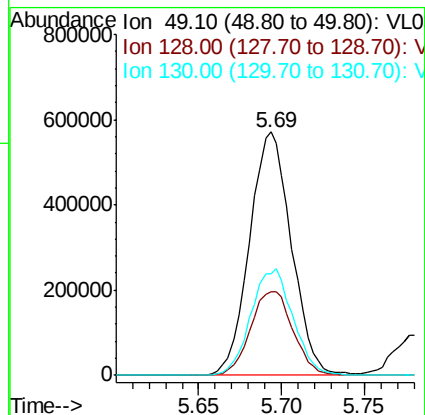
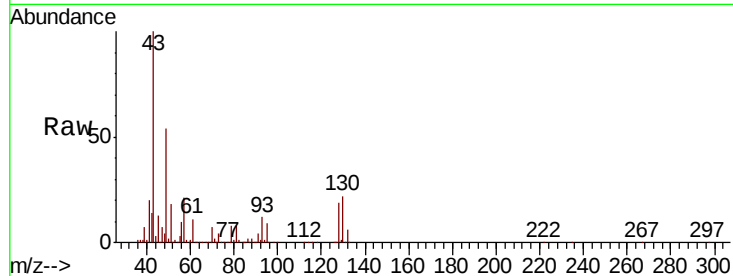
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	997916
Ion	Ratio	Lower	Upper
49	100		
128	35.5	17.6	52.9
130	44.2	22.3	66.9

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#2

Dichlorodifluoromethane

Concen: 11.712 ppbv

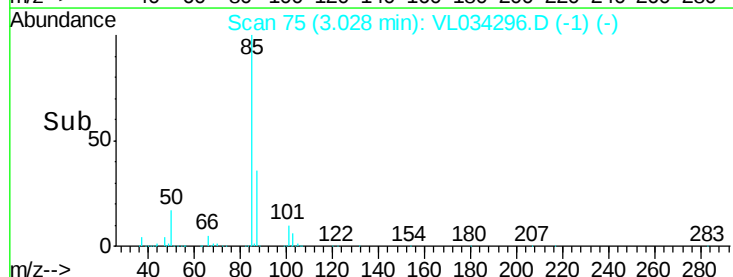
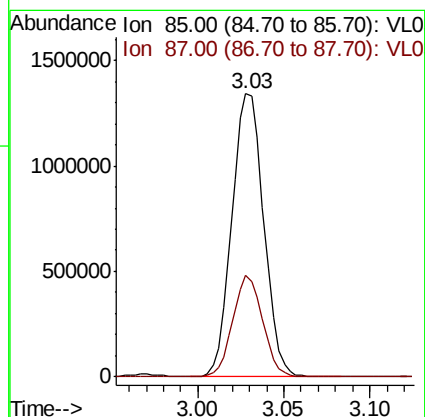
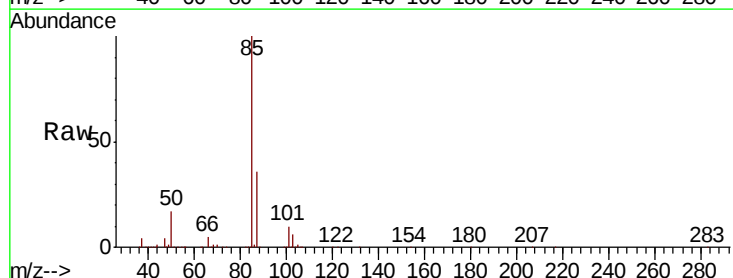
RT: 3.03 min Scan# 75

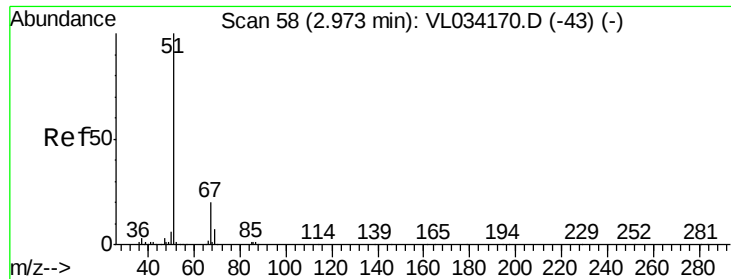
Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion:	85	Resp:	1726464
Ion	Ratio	Lower	Upper
85	100		
87	35.9	27.2	40.8





#3

Chlorodifluoromethane

Concen: 9.569 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1119608

Ion Ratio Lower Upper

51 100

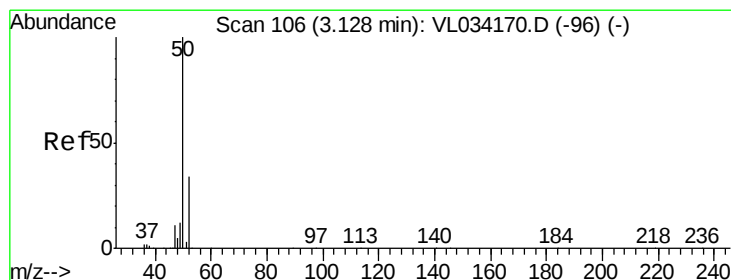
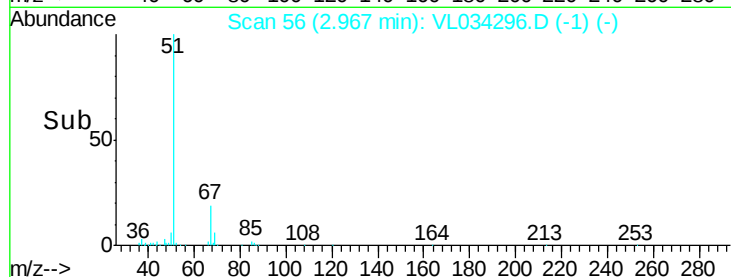
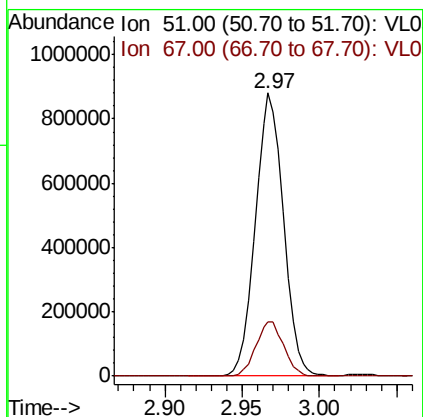
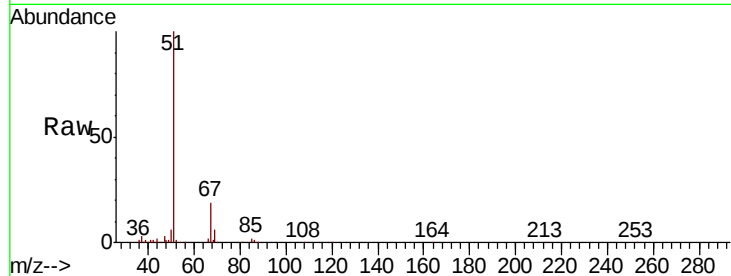
67 19.1 14.8 22.2

Manual Integrations

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#4

Chloromethane

Concen: 9.461 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034296.D

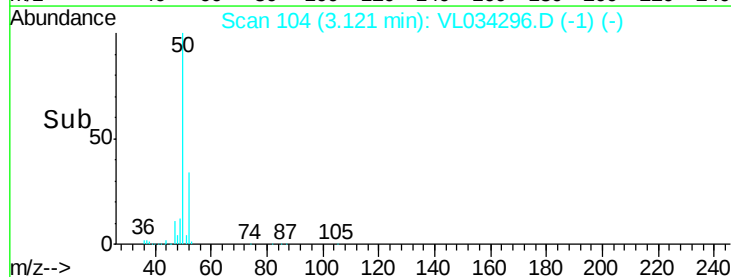
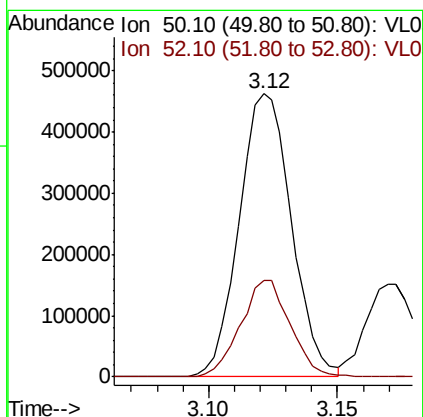
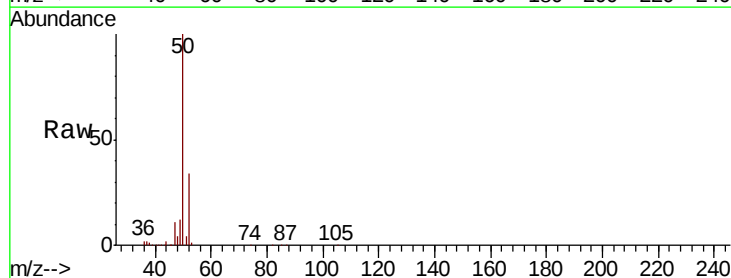
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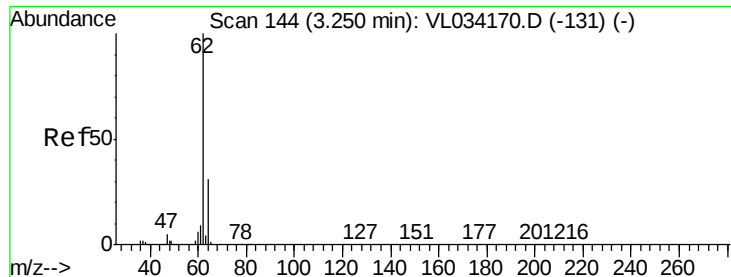
Tgt Ion: 50 Resp: 650497

Ion Ratio Lower Upper

50 100

52 34.2 27.1 40.7





#5

Vinyl Chloride

Concen: 9.357 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 587957

Ion Ratio Lower Upper

62 100

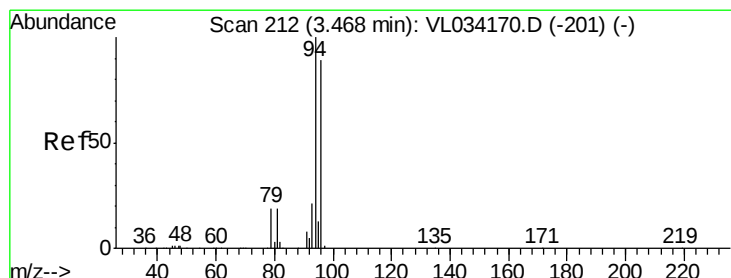
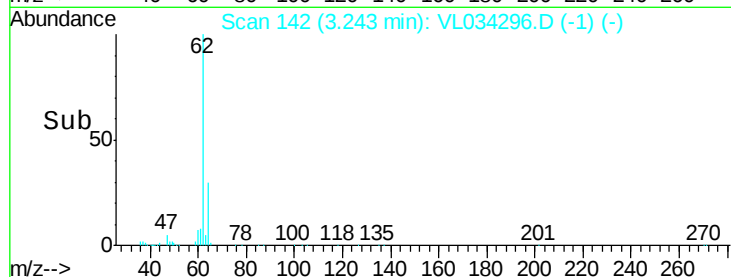
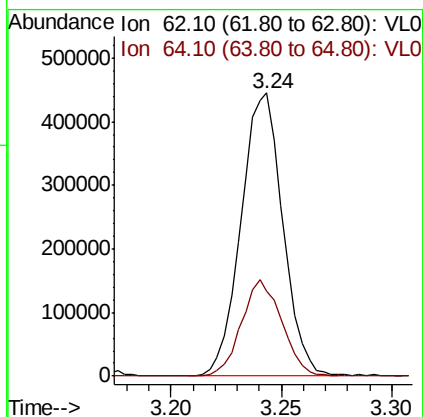
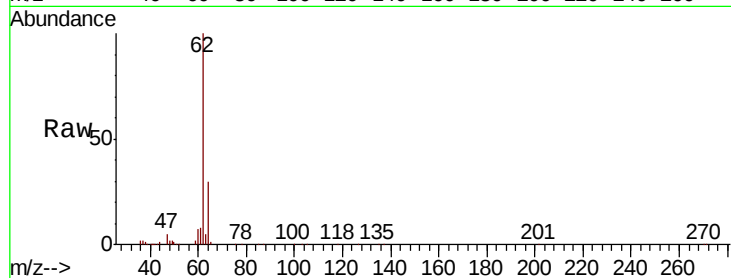
64 29.9 25.2 37.8

Manual Integrations

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10/16/2019 12:59:43 AM



#6

Bromomethane

Concen: 10.045 ppbv

RT: 3.46 min Scan# 210

Delta R.T. -0.01 min

Lab File: VL034296.D

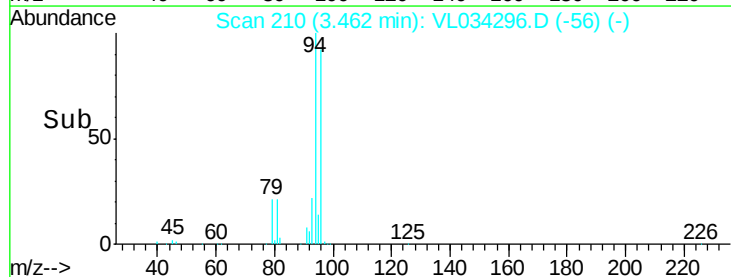
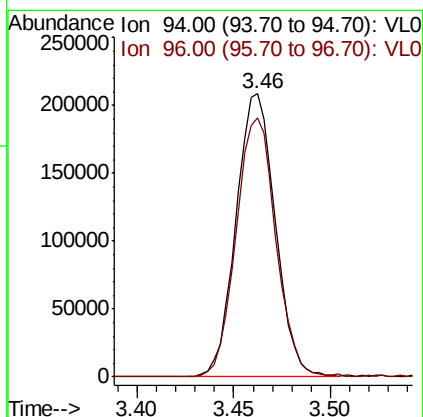
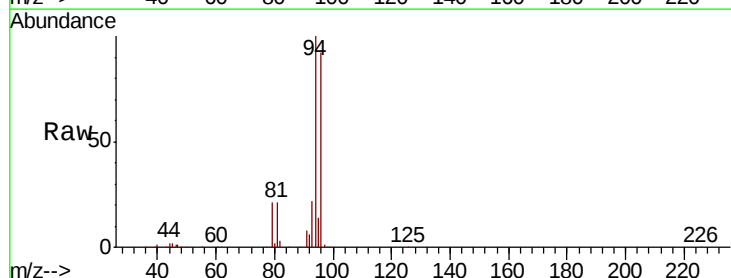
Acq: 15 Oct 2019 00:37

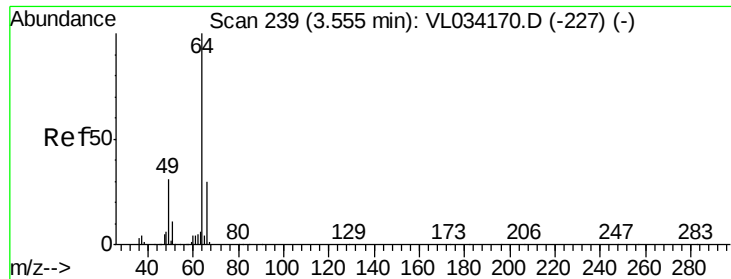
Tgt Ion: 94 Resp: 294487

Ion Ratio Lower Upper

94 100

96 91.6 71.3 106.9





#7

Chloroethane

Concen: 10.101 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 221857

Ion Ratio Lower Upper

64 100

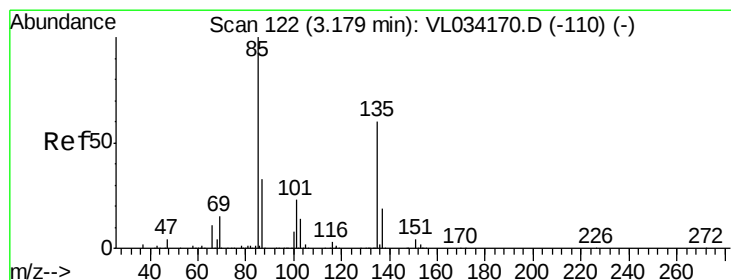
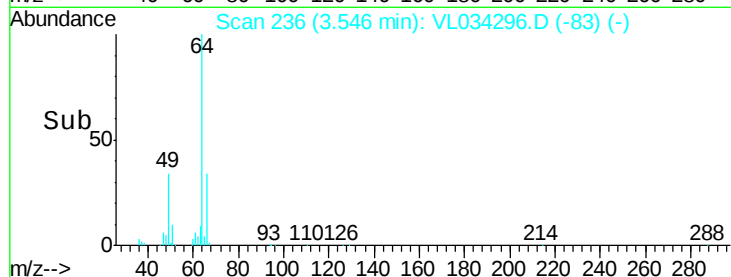
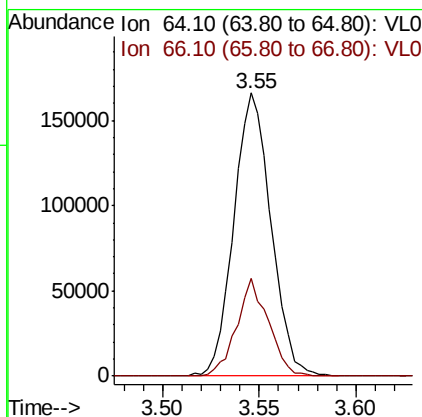
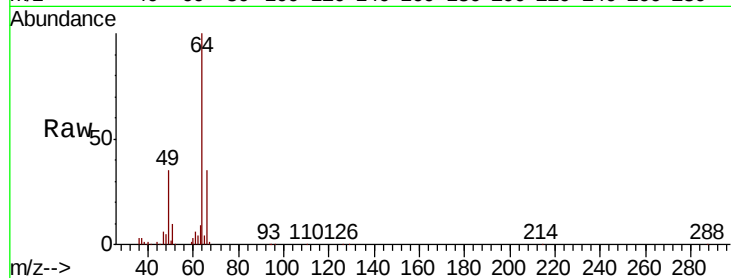
66 34.8 24.2 36.4

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.889 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL034296.D

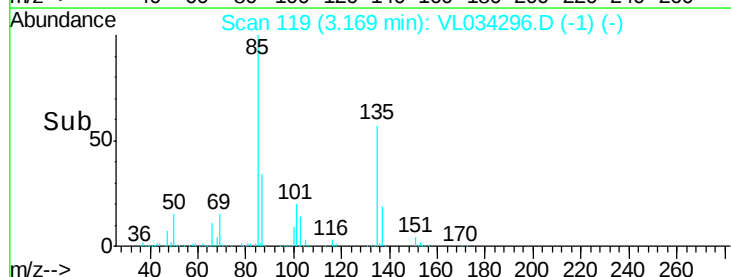
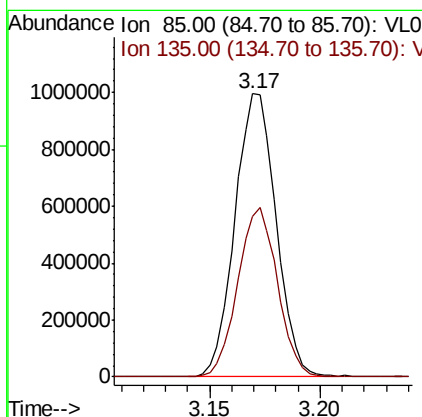
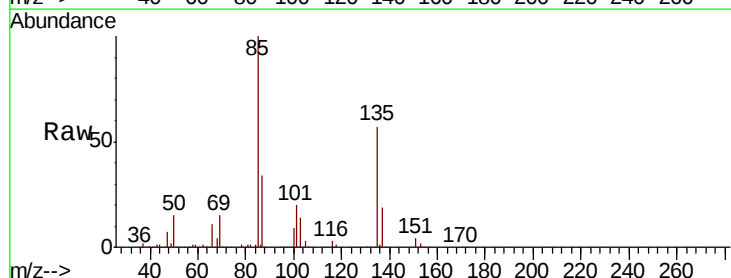
Acq: 15 Oct 2019 00:37

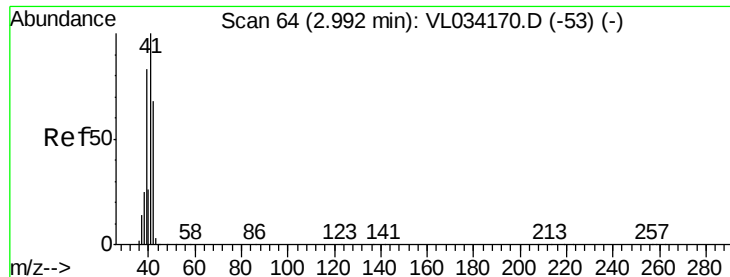
Tgt Ion: 85 Resp: 1286489

Ion Ratio Lower Upper

85 100

135 58.1 47.3 70.9





#9

Propene

Concen: 8.852 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 510993

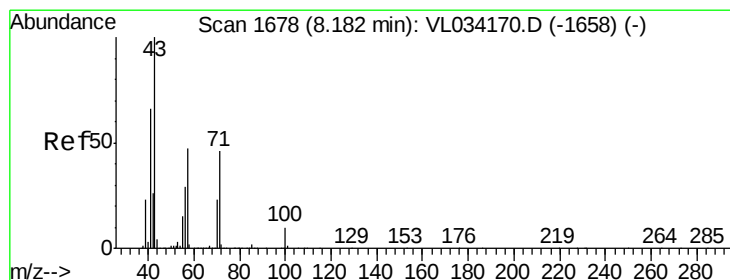
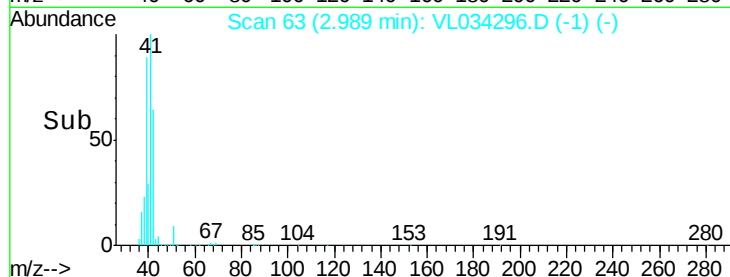
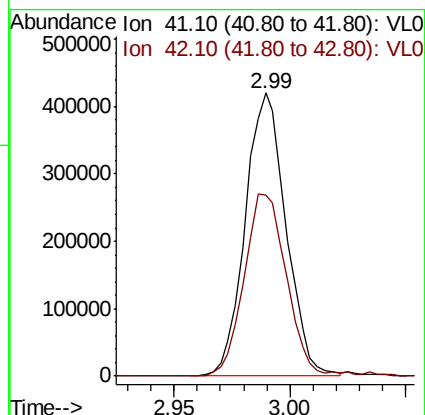
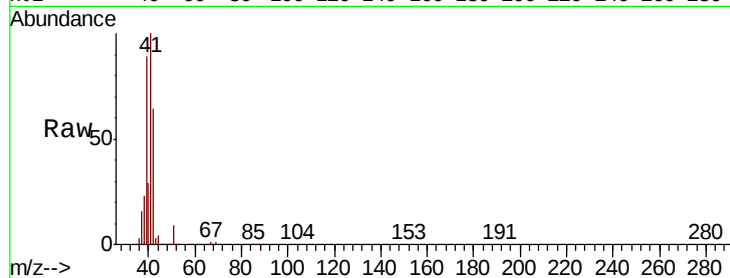
Ion Ratio Lower Upper

41 100

42 68.4 55.8 83.6

Manual Integrations
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10/16/2019 12:59:43 AM



#10

Heptane

Concen: 9.102 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034296.D

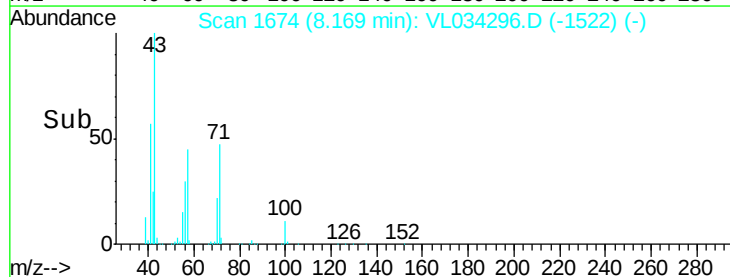
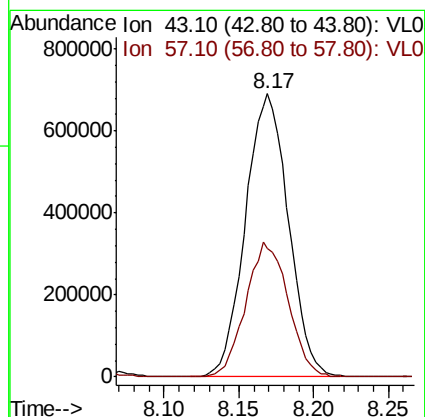
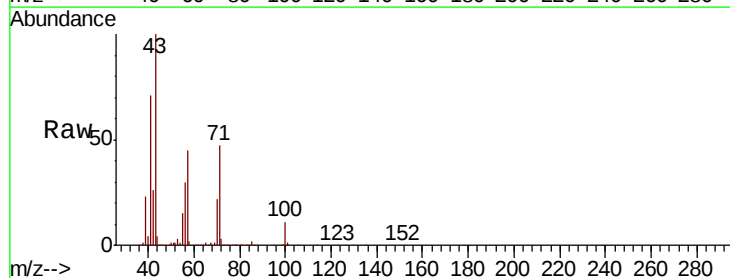
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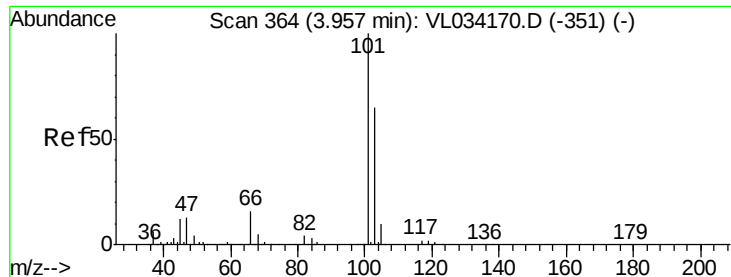
Tgt Ion: 43 Resp: 1369336

Ion Ratio Lower Upper

43 100

57 47.2 37.5 56.3





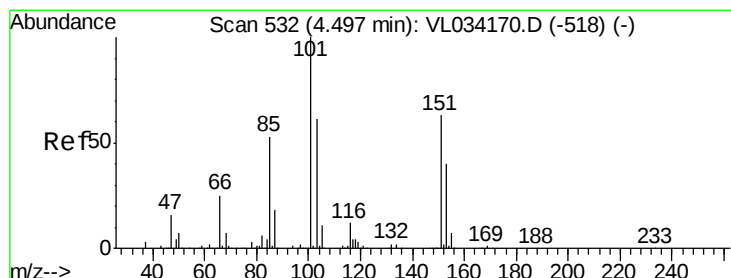
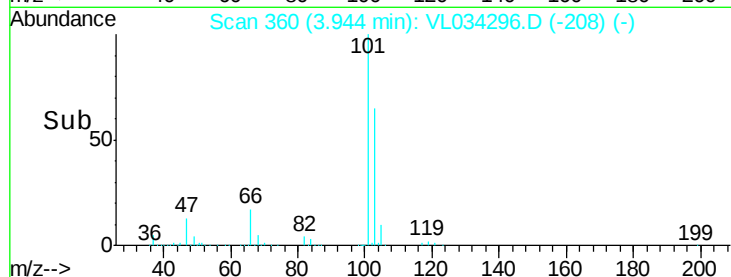
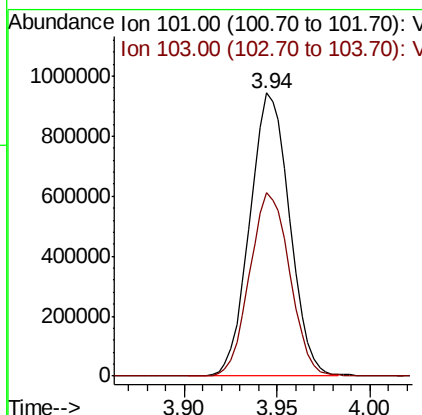
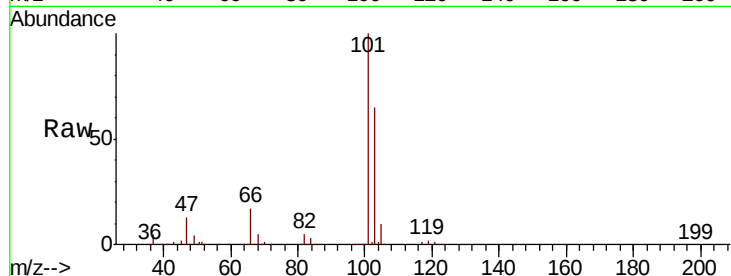
#11
 Trichlorofluoromethane
 Concen: 10.554 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1416045
 Ion Ratio Lower Upper
 101 100
 103 65.0 52.1 78.1

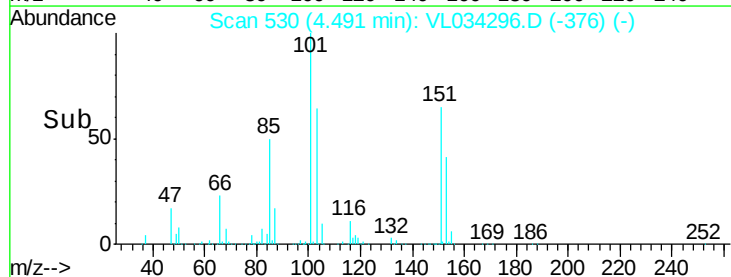
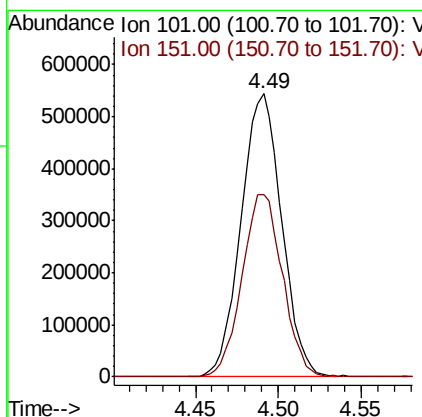
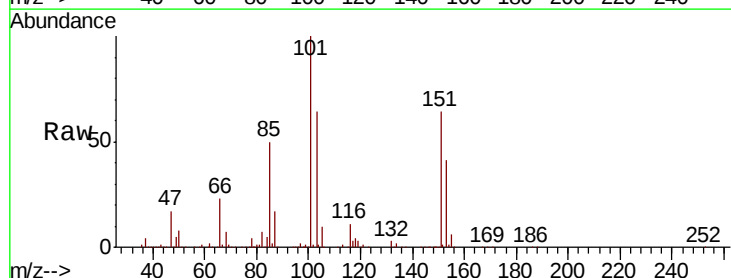
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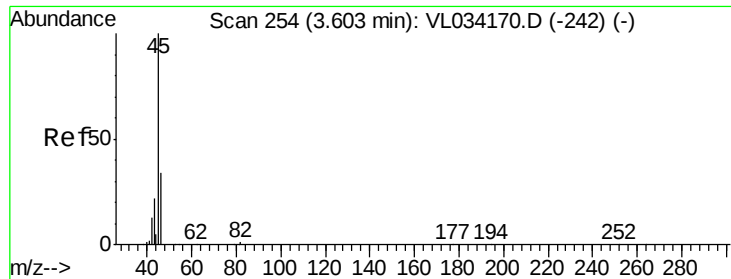
MMDadoda
 10/16/2019 12:59:43 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.575 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion:101 Resp: 928557
 Ion Ratio Lower Upper
 101 100
 151 64.5 51.8 77.8





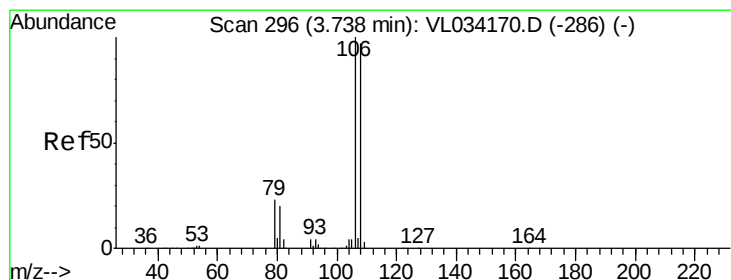
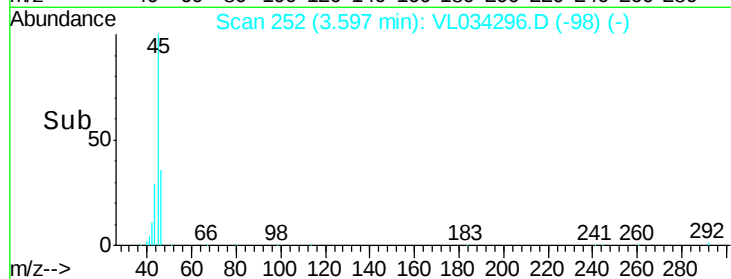
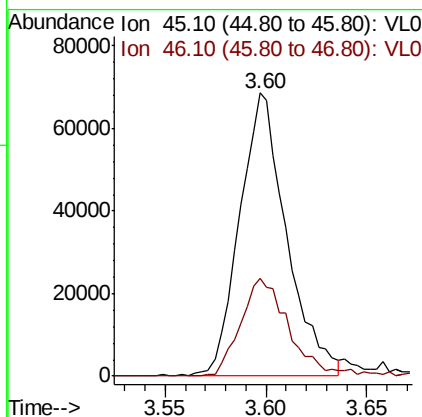
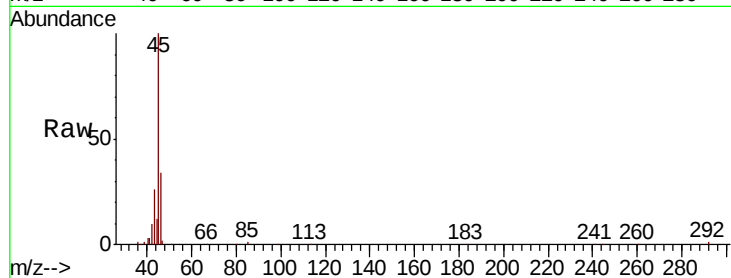
#13
Ethanol
Concen: 7.998 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.4	15.5	61.9

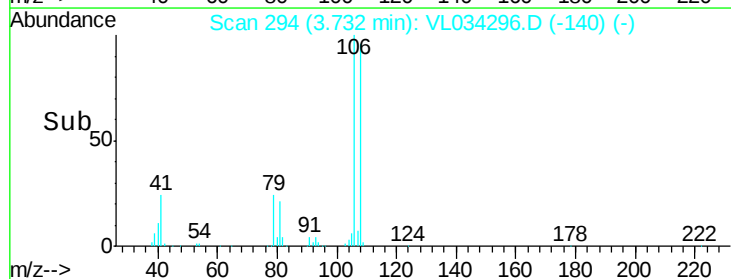
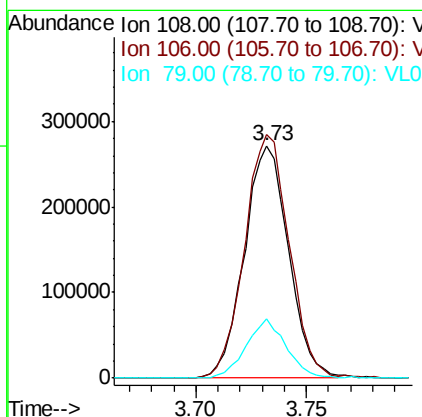
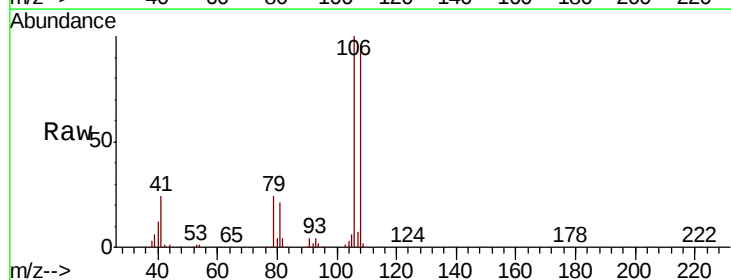
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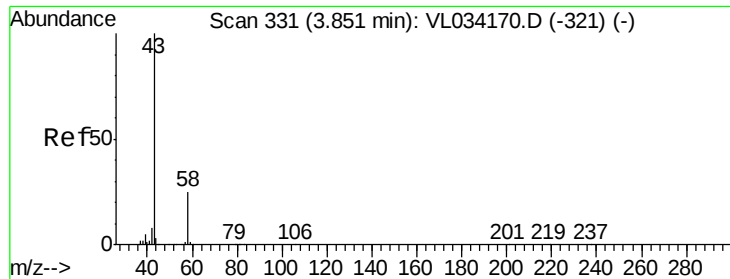
MMDadoda
10/16/2019 12:59:43 AM



#14
Bromoethene
Concen: 10.521 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.3	86.2	129.4
79	23.4	18.6	27.8





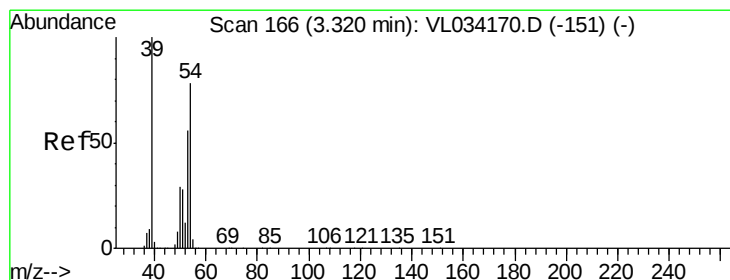
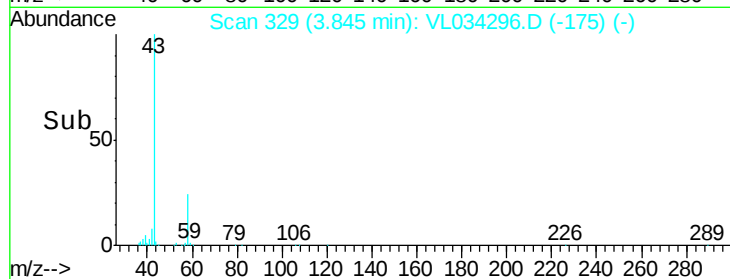
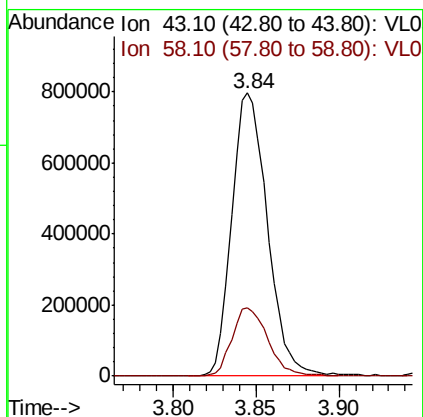
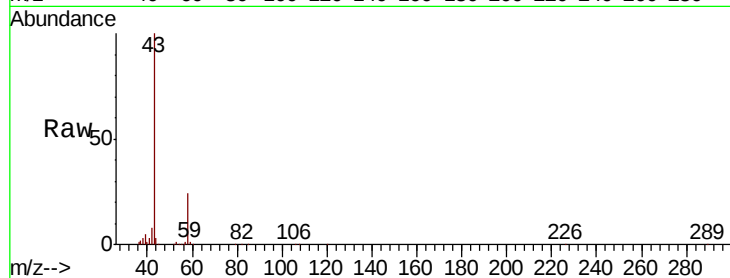
#15
Acetone
Concen: 8.925 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1193650
Ion Ratio Lower Upper
43 100
58 24.3 20.5 30.7

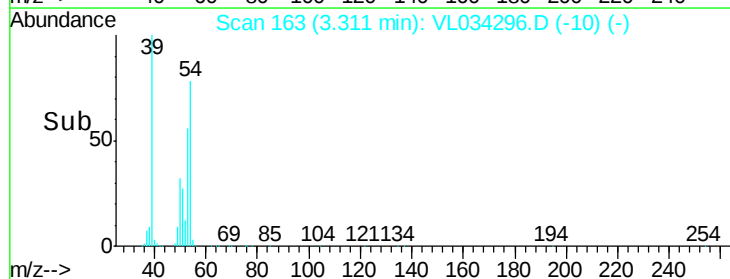
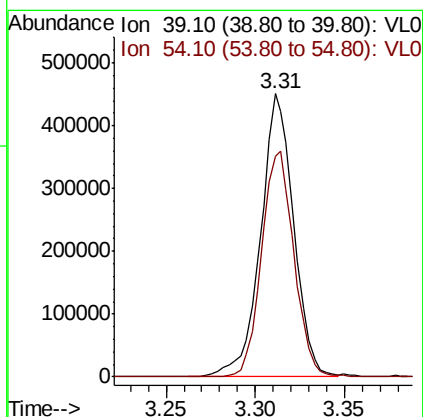
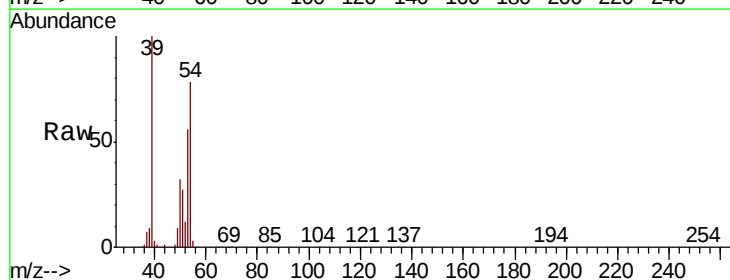
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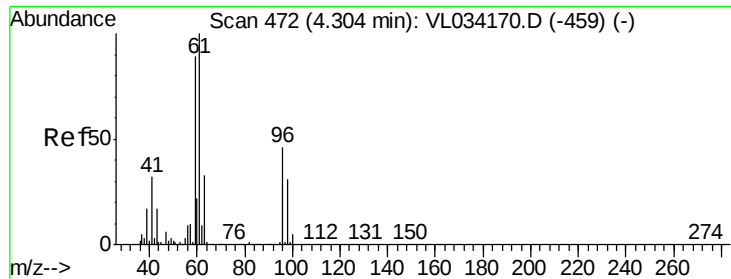
MMDadoda
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#16
1,3-Butadiene
Concen: 10.048 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion: 39 Resp: 586473
Ion Ratio Lower Upper
39 100
54 78.3 63.4 95.0





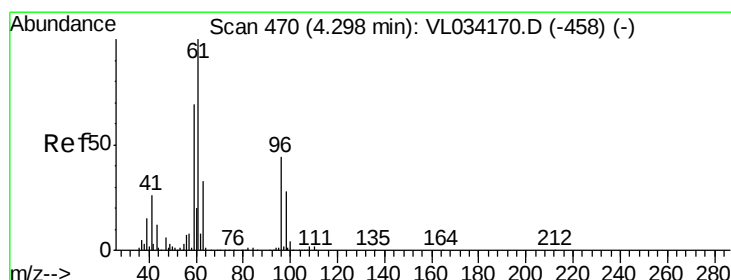
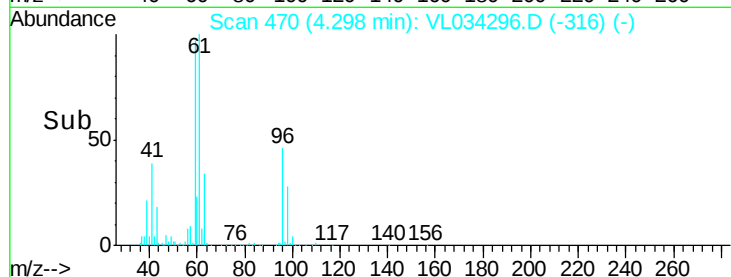
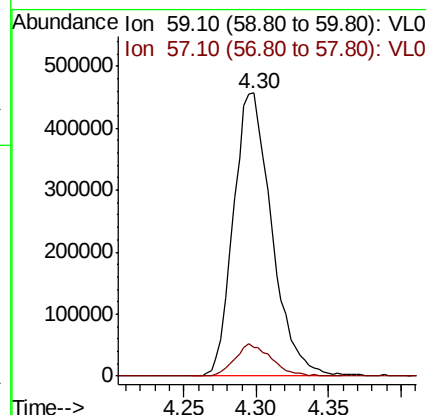
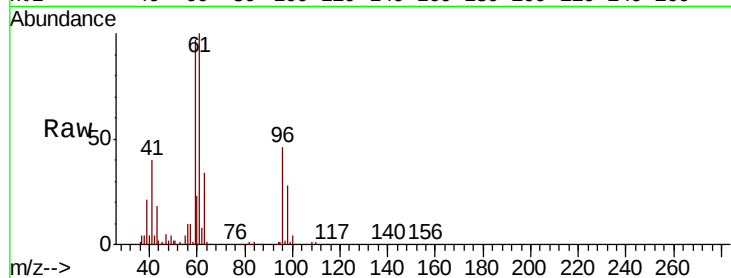
#17
tert-Butyl alcohol
Concen: 9.862 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	59	Resp	835751
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.7	13.1

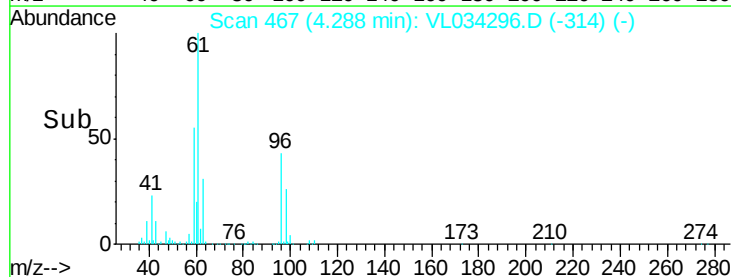
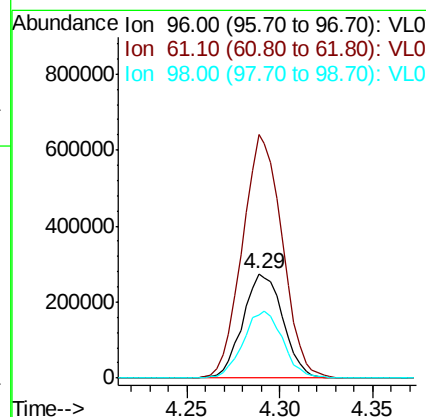
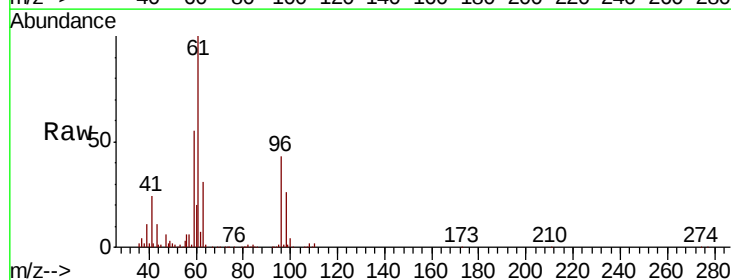
Manual Integrations
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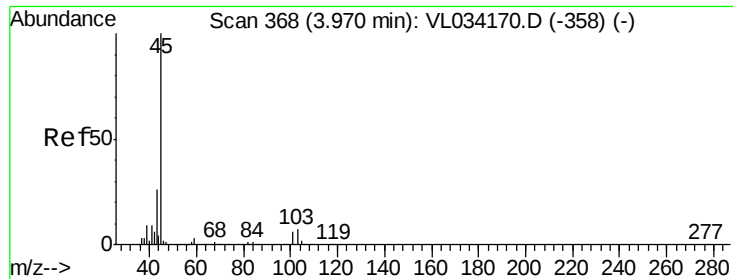
MMDadoda
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#18
1,1-Dichloroethene
Concen: 10.772 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion	96	Resp	412551
Ion	Ratio	Lower	Upper
96	100		
61	233.4	183.3	274.9
98	61.0	51.4	77.2





#19

Isopropyl Alcohol

Concen: 9.187 ppbv

RT: 3.97 min Scan# 367

Delta R.T. -0.00 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 45 Resp: 755573

Ion Ratio Lower Upper

45 100

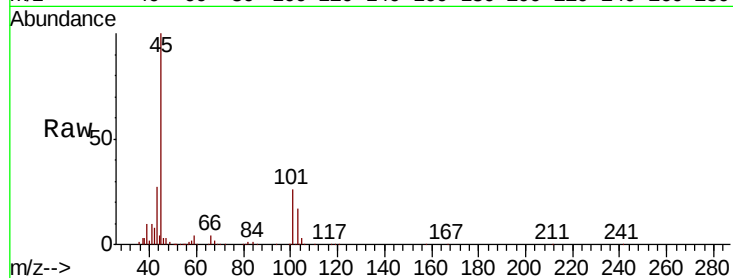
58 2.0 1.4 2.0

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

400000

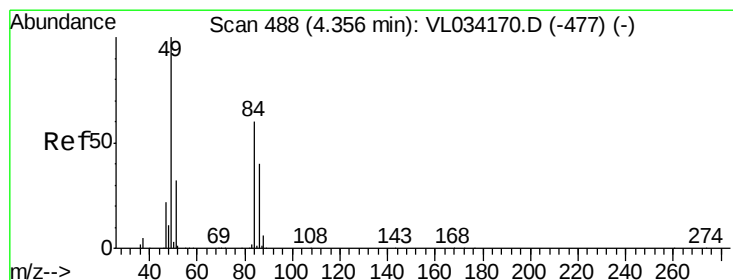
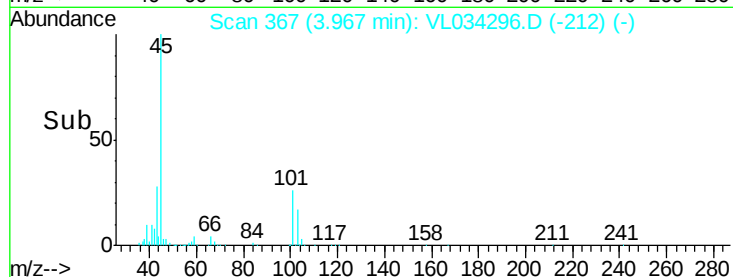
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.929 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion: 84 Resp: 382873

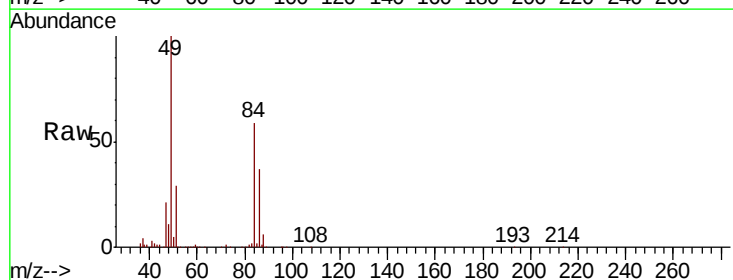
Ion Ratio Lower Upper

84 100

49 169.1 133.8 200.8

51 48.2 43.6 65.4

86 62.7 53.1 79.7



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

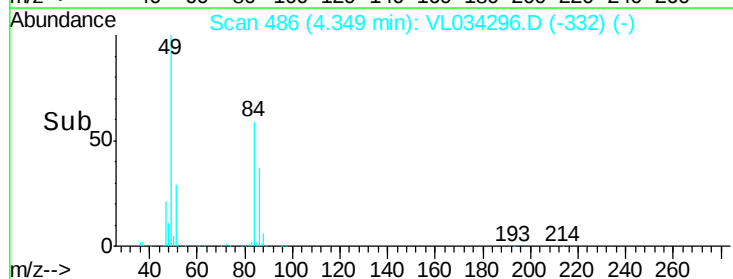
600000

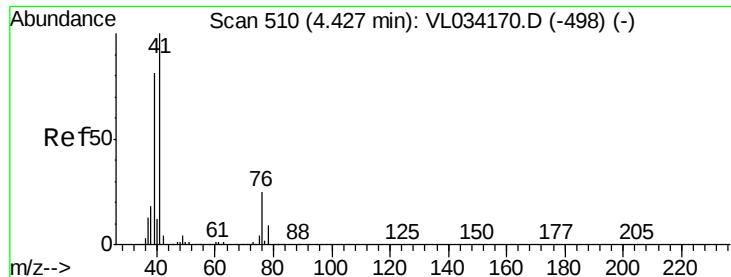
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 10.625 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

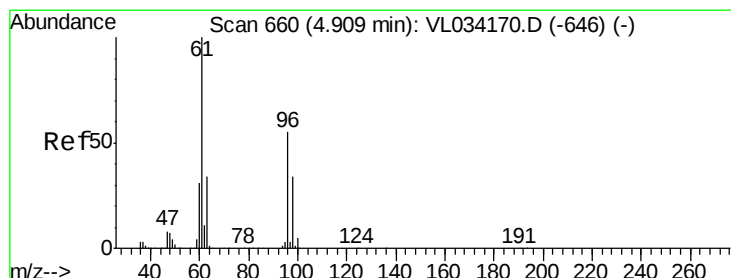
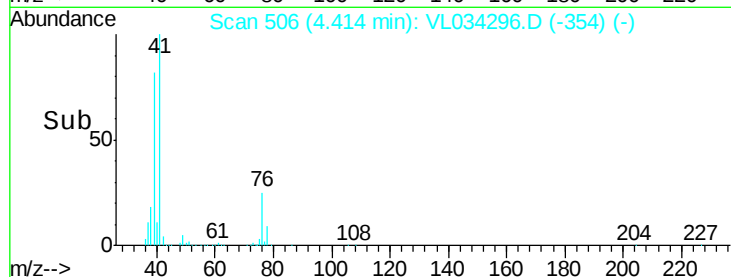
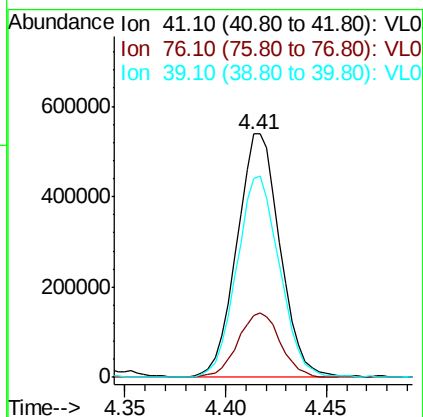
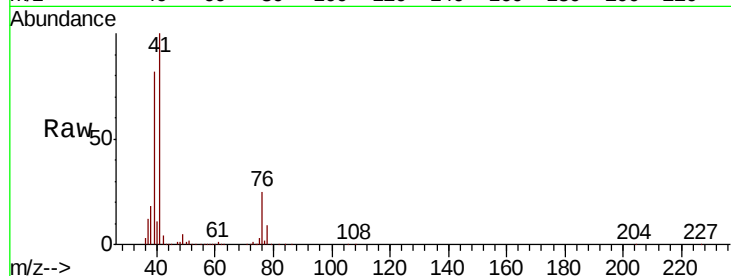
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	802647
Ion	Ratio	Lower	Upper
41	100		
76	26.5	21.8	32.6
39	82.7	64.8	97.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 11.087 ppbv

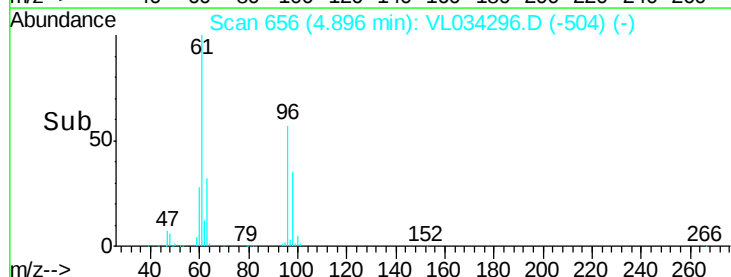
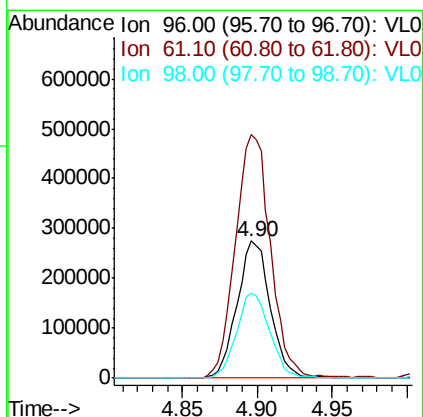
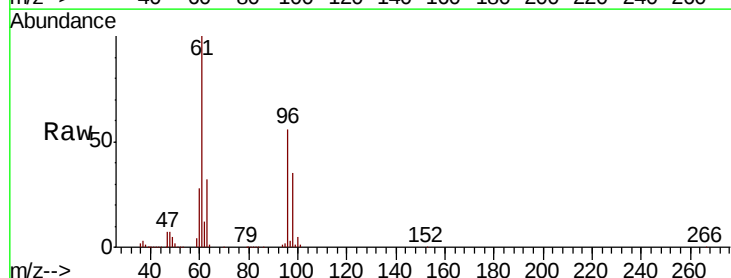
RT: 4.90 min Scan# 656

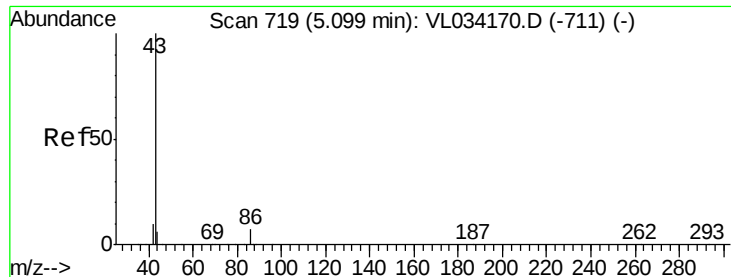
Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion:	96	Resp:	424837
Ion	Ratio	Lower	Upper
96	100		
61	178.0	145.5	218.3
98	62.0	49.9	74.9





#23

Vinyl Acetate

Concen: 9.366 ppbv

RT: 5.09 min Scan# 716

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1845981

Ion Ratio Lower Upper

43 100

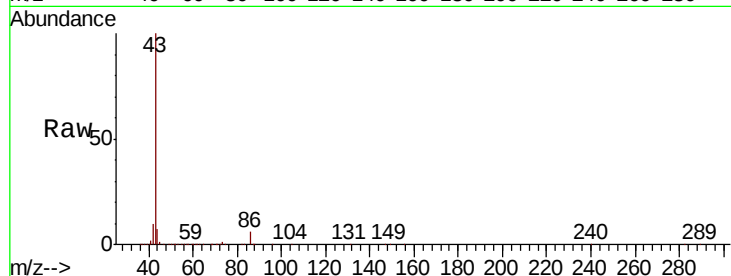
86 6.0 5.1 7.7

42 10.4 8.6 12.8

44 6.8 4.7 7.1

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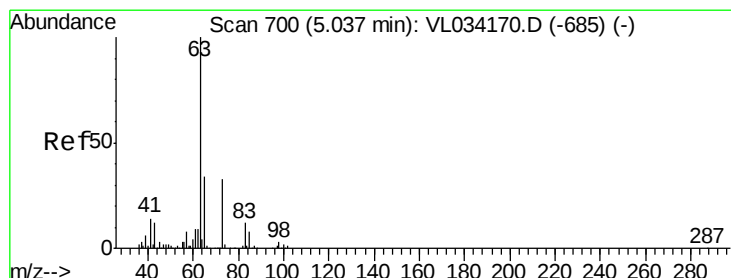
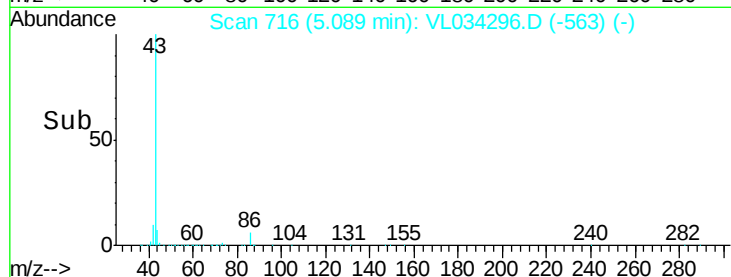
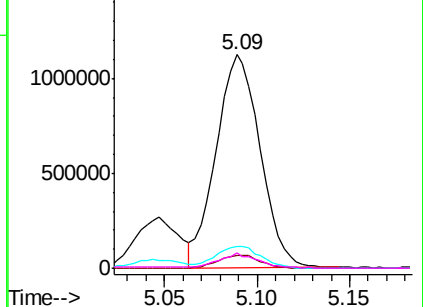


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.488 ppbv

RT: 5.02 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

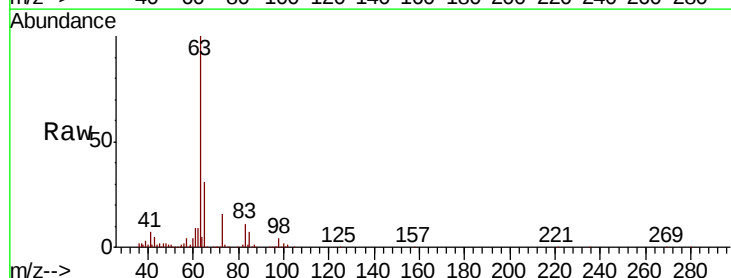
Tgt Ion: 63 Resp: 1259194

Ion Ratio Lower Upper

63 100

98 3.5 1.8 5.3

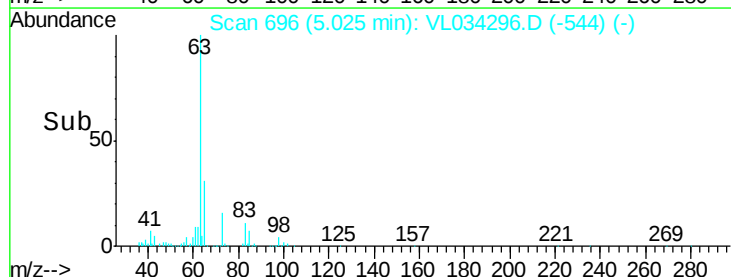
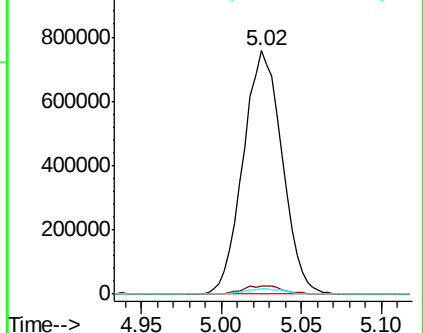
100 2.2 1.0 3.0

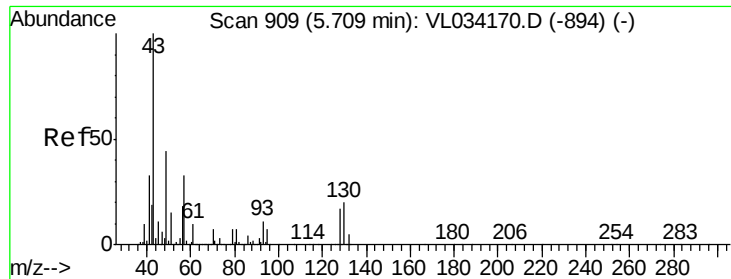


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.214 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2330407

Ion Ratio Lower Upper

43 100

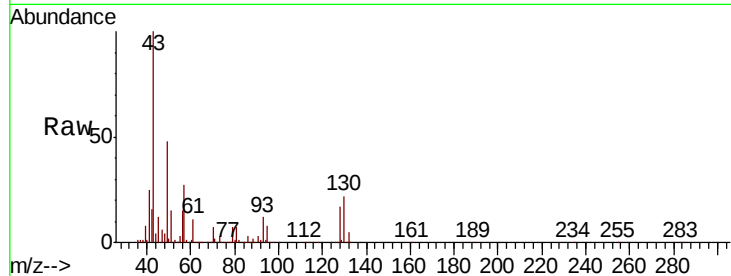
45 10.1 8.4 12.6

61 8.7 7.2 10.8

70 6.4 5.3 7.9

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10/16/2019 12:59:43 AM

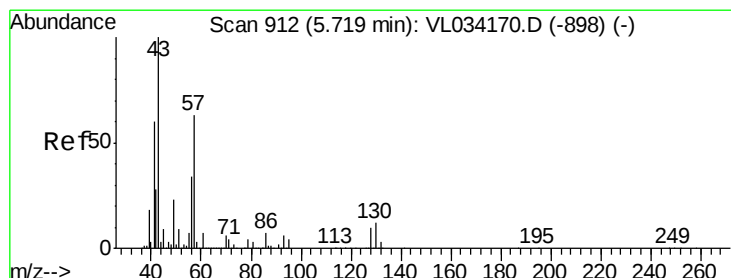
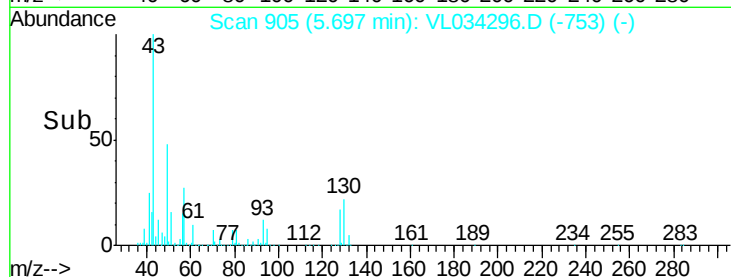
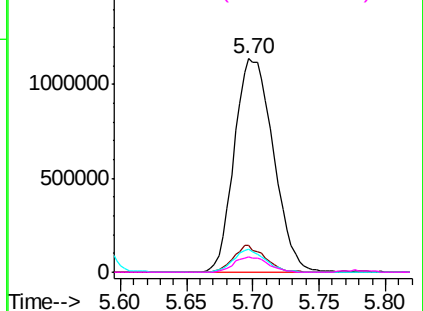


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.102 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion: 57 Resp: 957569

Ion Ratio Lower Upper

57 100

41 98.3 78.5 117.7

43 244.5 189.5 284.3

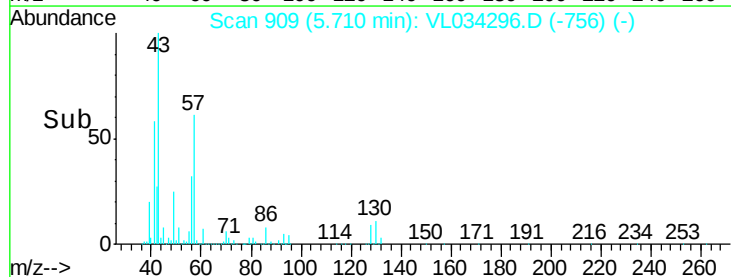
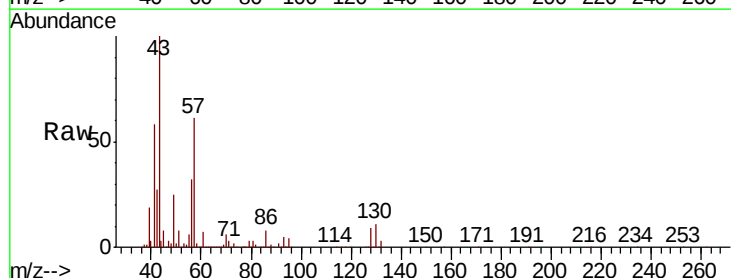
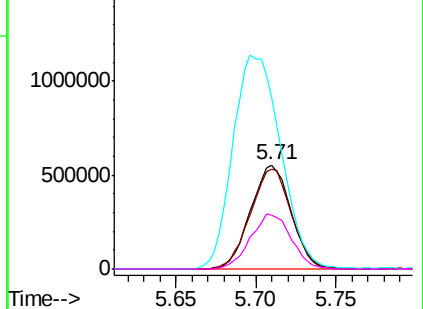
56 53.3 43.2 64.8

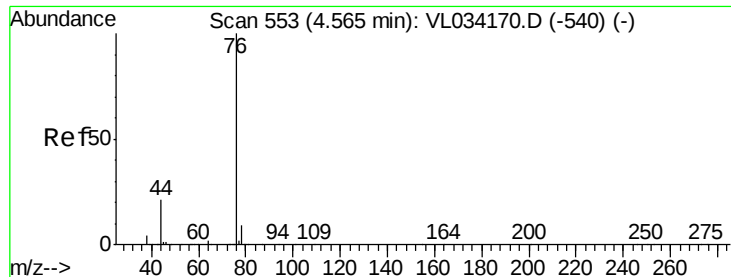
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.474 ppbv

RT: 4.56 min Scan# 550

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1113326

Ion Ratio Lower Upper

76 100

44 21.5 17.6 26.4

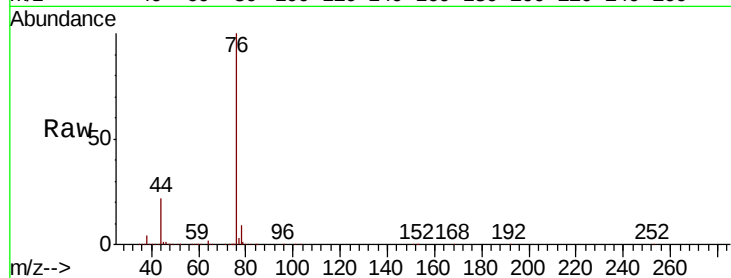
78 9.5 7.6 11.4

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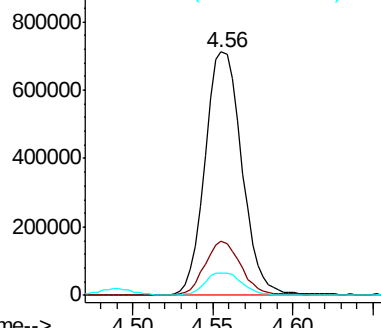
10/16/2019 12:59:43 AM



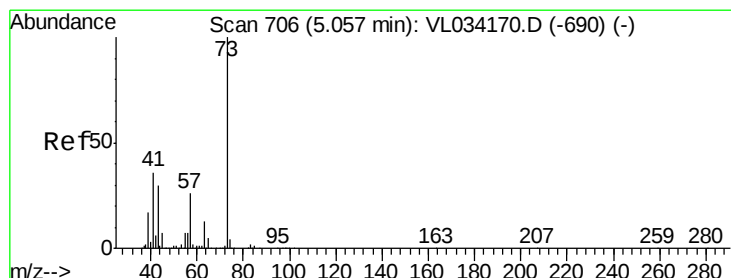
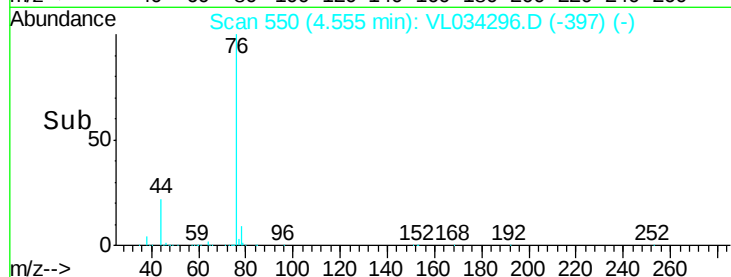
Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



Time-->



#28

Methyl tert-Butyl Ether

Concen: 9.464 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.01 min

Lab File: VL034296.D

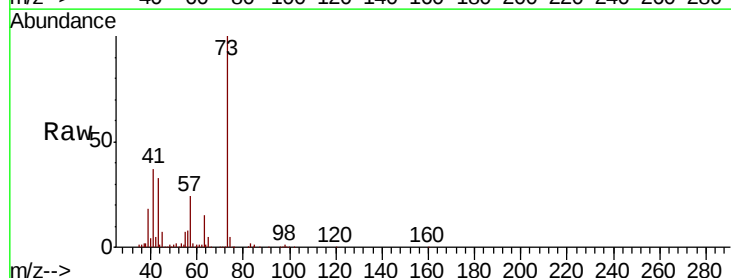
Acq: 15 Oct 2019 00:37

Tgt Ion: 73 Resp: 1478713

Ion Ratio Lower Upper

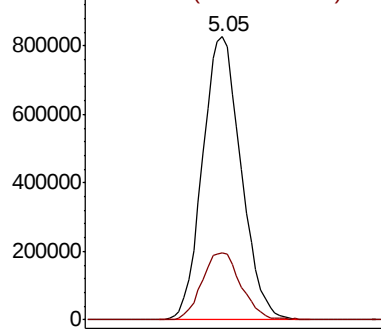
73 100

57 24.3 20.2 30.2

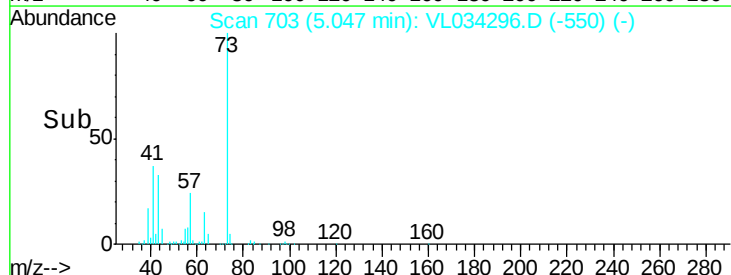


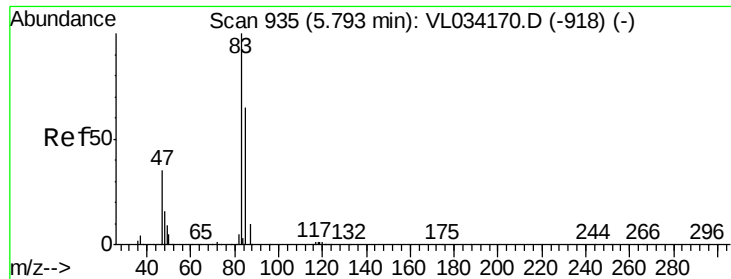
Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->





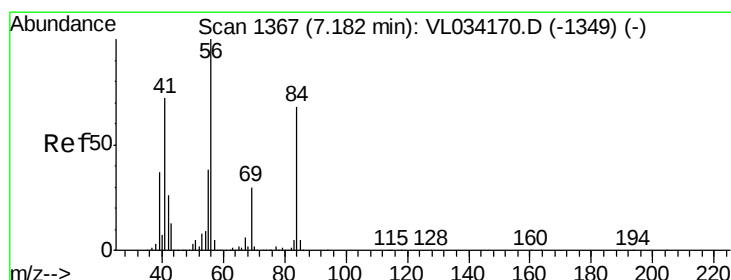
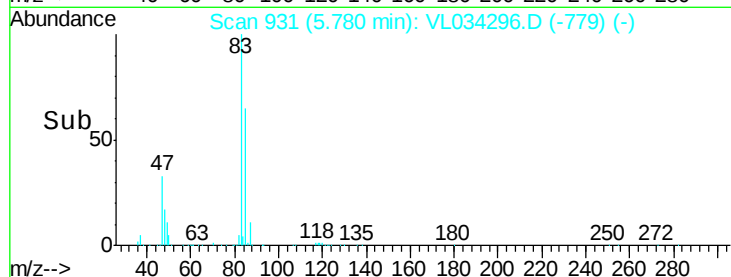
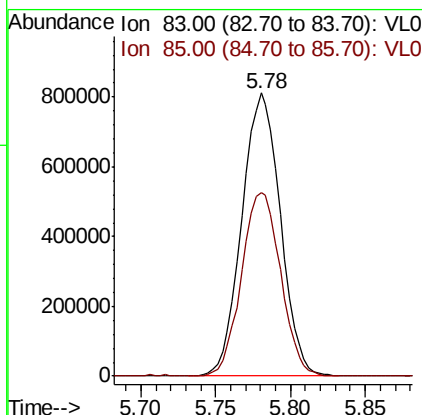
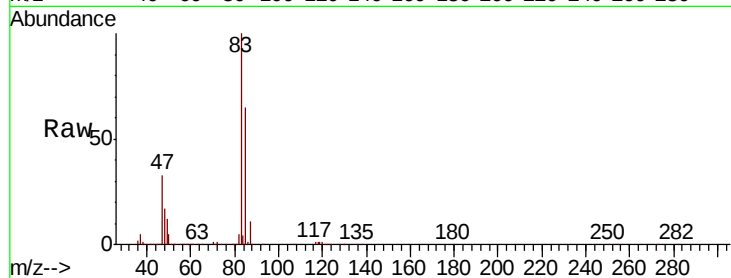
#29
Chloroform
Concen: 9.703 ppbv
RT: 5.78 min Scan# 931
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1458686
Ion Ratio Lower Upper
83 100
85 64.8 52.3 78.5

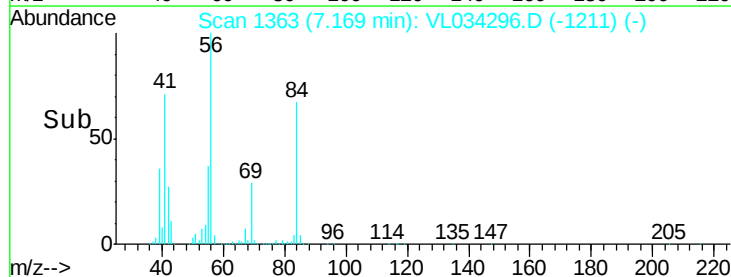
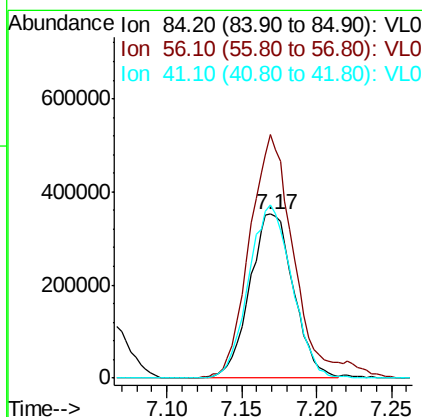
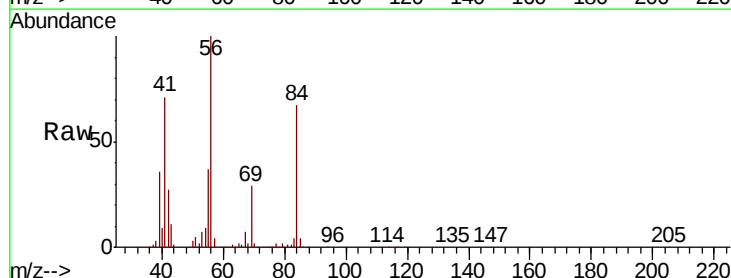
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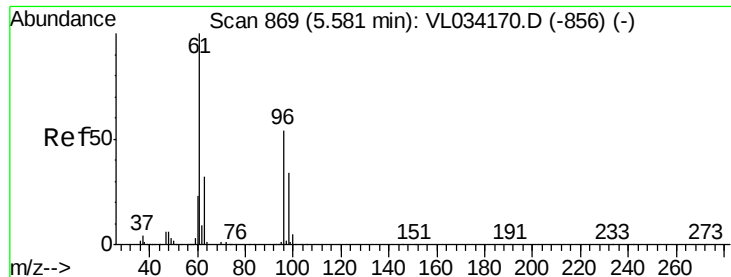
MMDadoda
10/16/2019 12:59:43 AM



#30
Cyclohexane
Concen: 9.419 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion: 84 Resp: 715412
Ion Ratio Lower Upper
84 100
56 152.3 126.2 189.2
41 105.3 85.8 128.8





#31

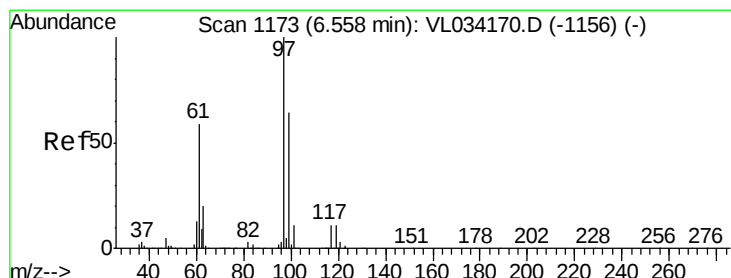
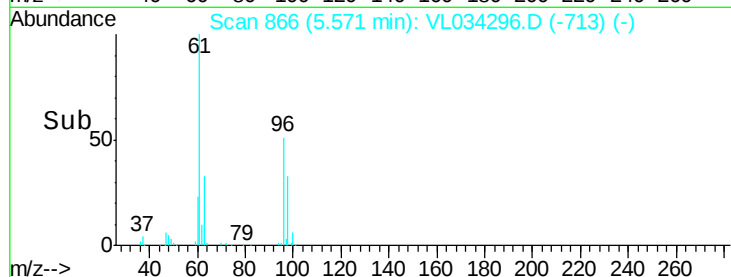
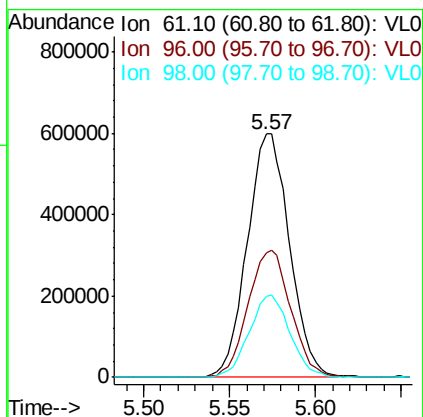
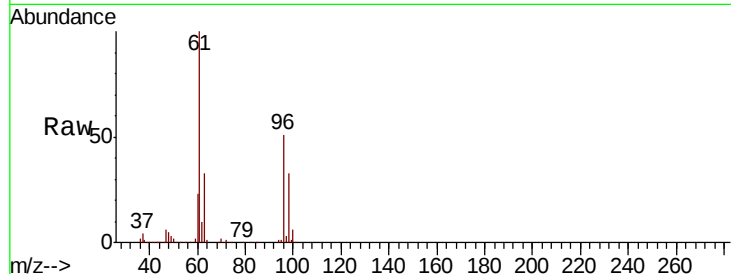
cis-1,2-Dichloroethene
 Concen: 9.469 ppbv
 RT: 5.57 min Scan# 866
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	51.0	43.0	64.4
98	33.5	27.2	40.8

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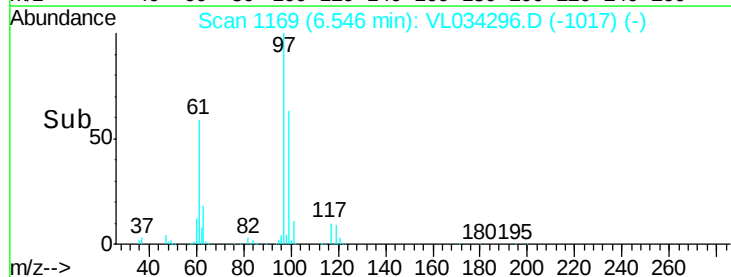
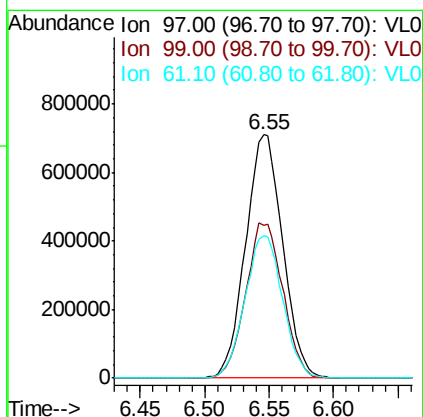
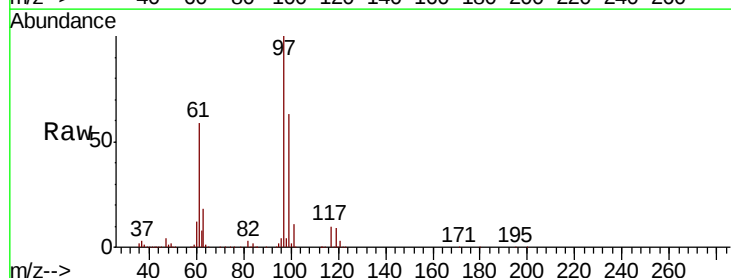
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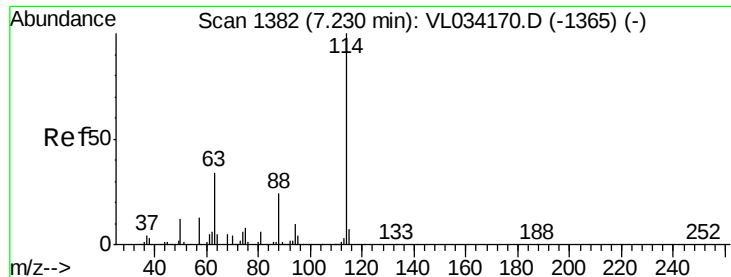


#32

1,1,1-Trichloroethane
 Concen: 9.807 ppbv
 RT: 6.55 min Scan# 1169
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.2
61	59.8	48.4	72.6





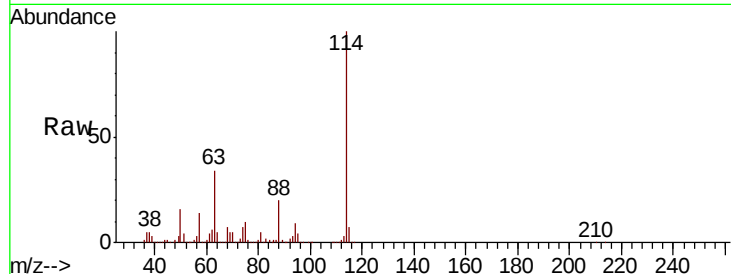
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

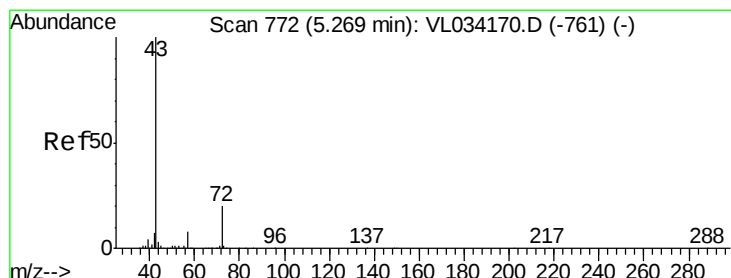
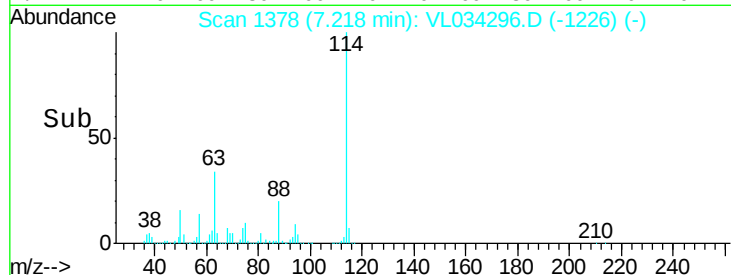
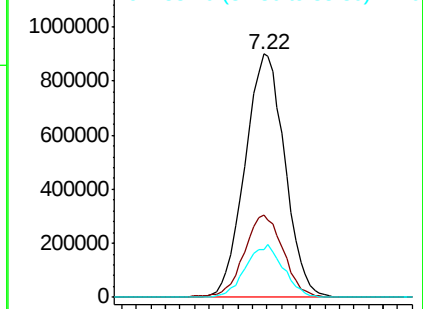
Tot Ion	Ratio	Lower	Upper
114	100		
63	33.7	27.8	41.6
88	20.6	17.1	25.7

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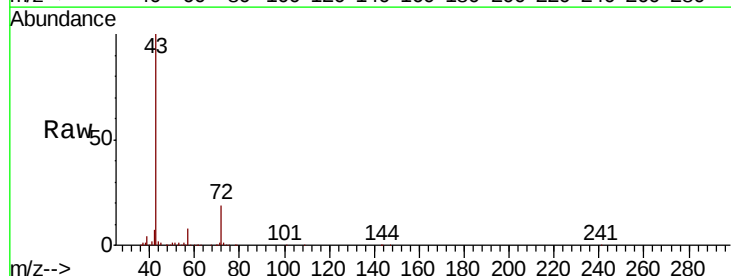


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

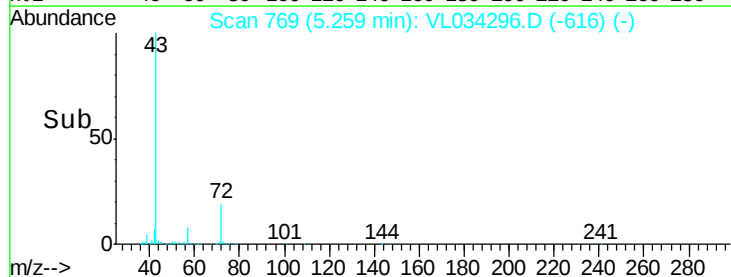
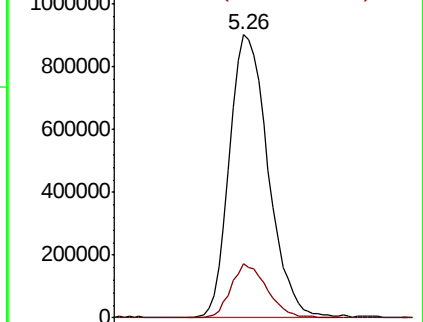


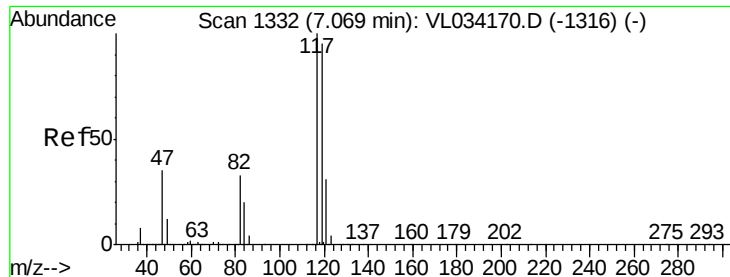
#34
 2-Butanone
 Concen: 8.913 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.0	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: 10.176 ppbv

RT: 7.06 min Scan# 1329

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1453052

Ion Ratio Lower Upper

117 100

119 96.5 75.8 113.6

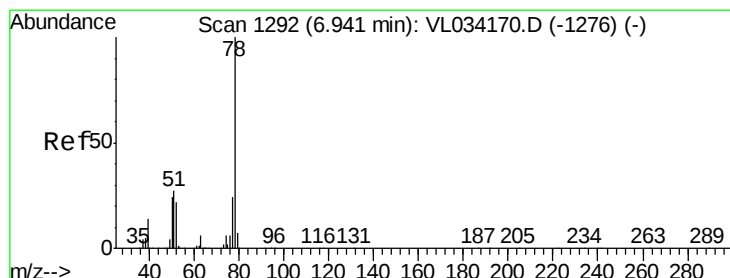
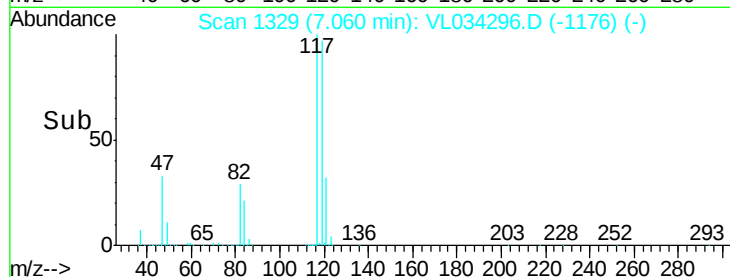
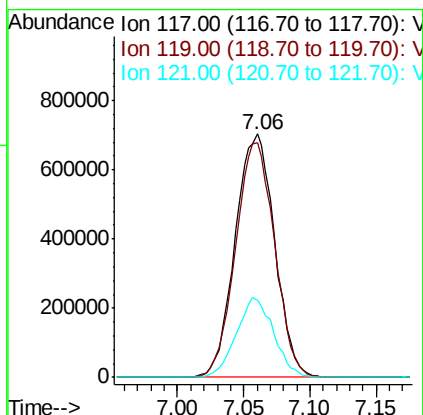
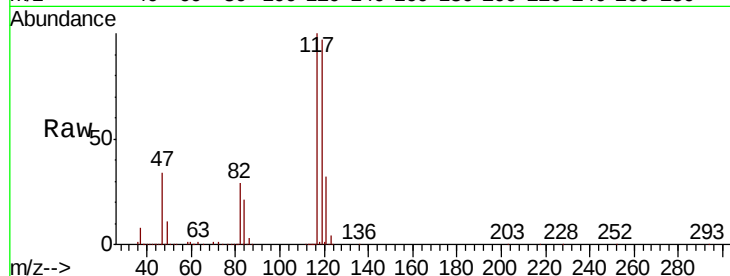
121 31.9 25.0 37.6

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#36

Benzene

Concen: 9.109 ppbv

RT: 6.93 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

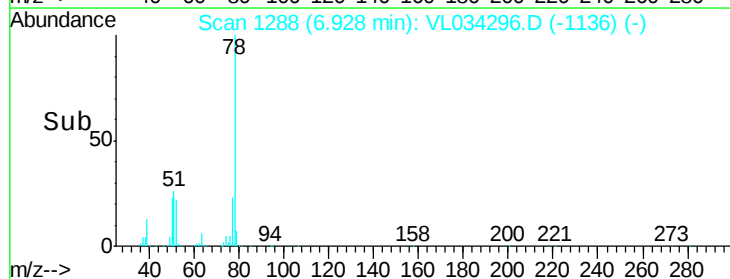
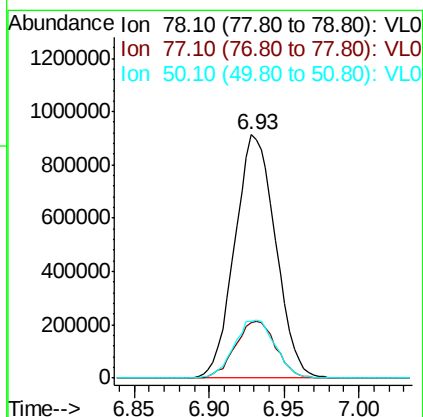
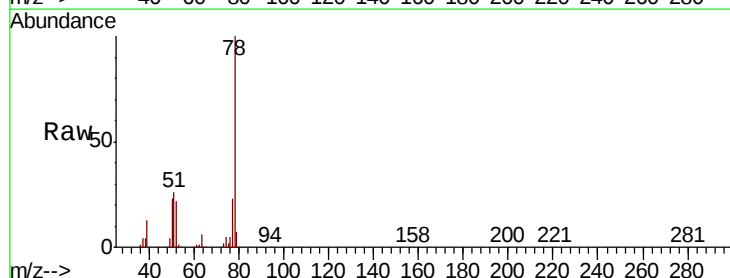
Tgt Ion: 78 Resp: 1729068

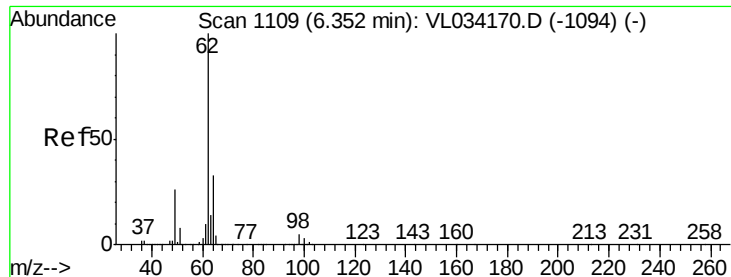
Ion Ratio Lower Upper

78 100

77 22.7 19.0 28.4

50 23.4 18.9 28.3





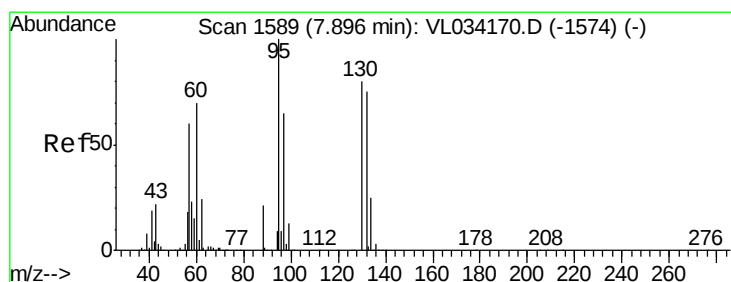
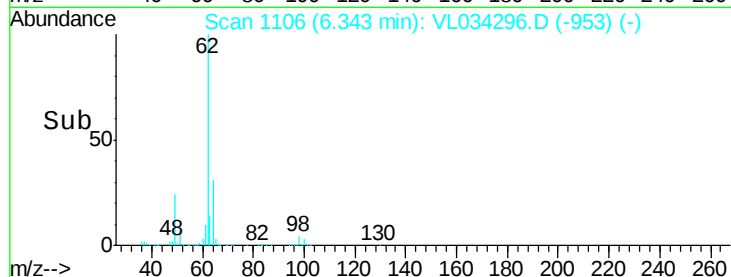
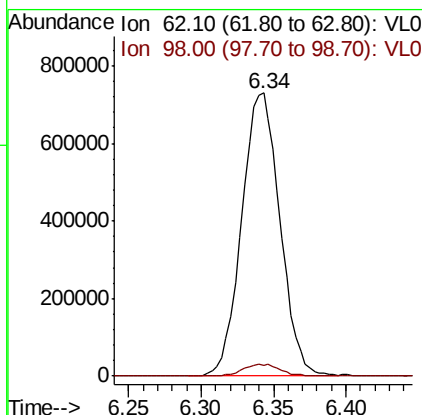
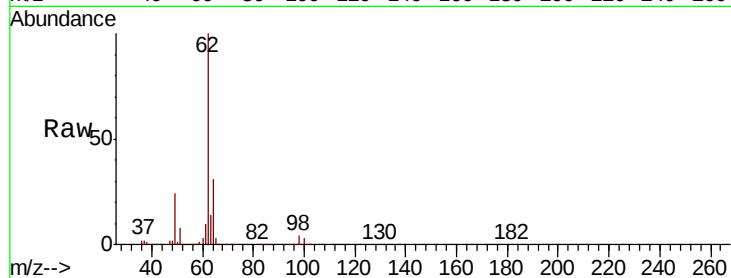
#37
1,2-Dichloroethane
Concen: 9.916 ppbv
RT: 6.34 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.3	3.8	5.8

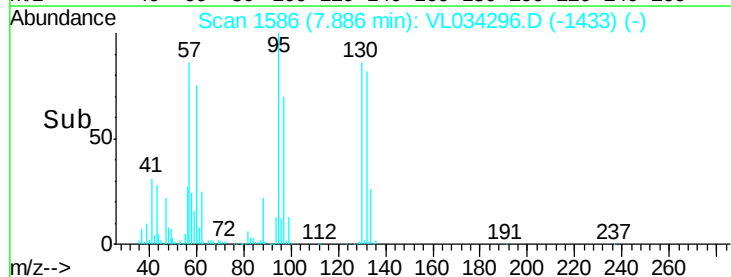
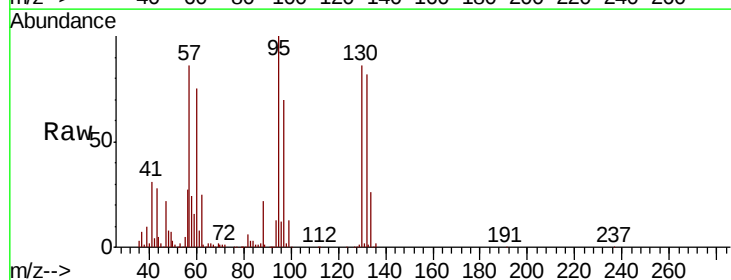
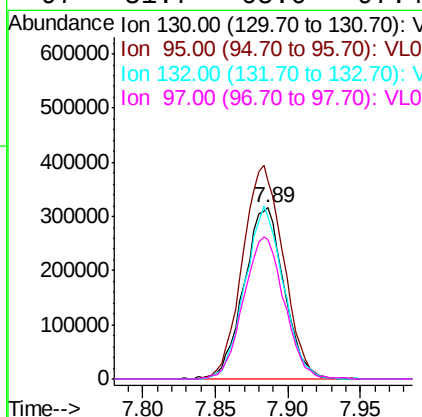
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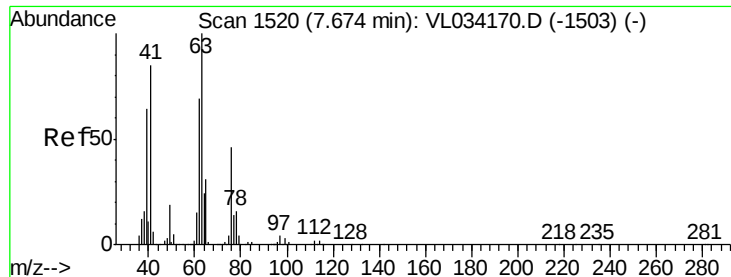
MMDadoda
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#38
Trichloroethene
Concen: 8.907 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.2	99.8	149.6
132	95.4	75.2	112.8
97	81.7	65.0	97.4





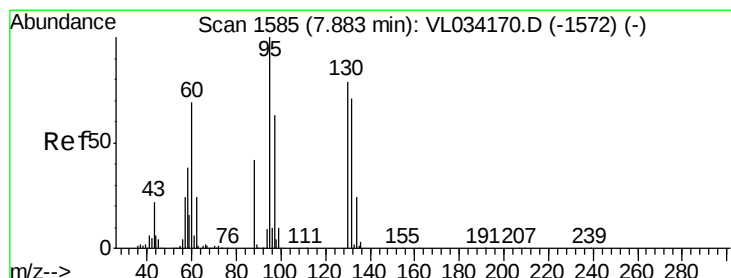
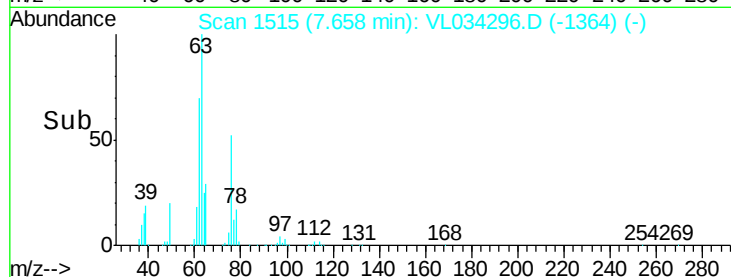
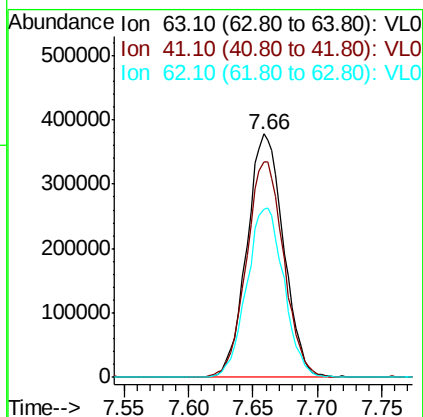
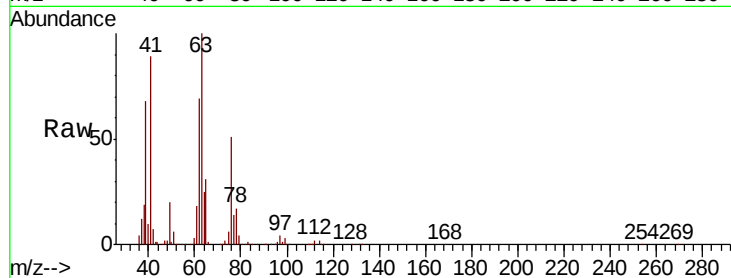
#39
 1,2-Dichloropropane
 Concen: 8.776 ppbv
 RT: 7.66 min Scan# 1515
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	88.5	68.4	102.6
62	69.0	55.4	83.2

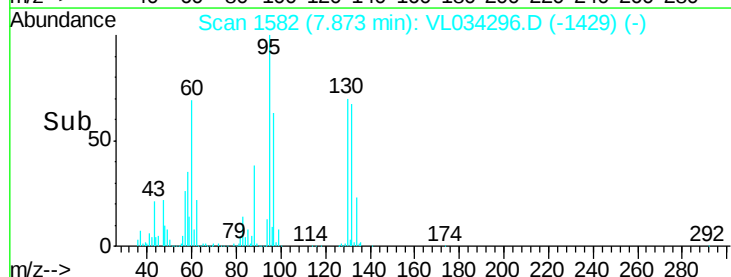
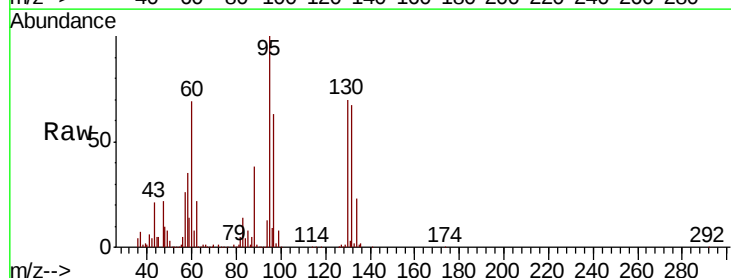
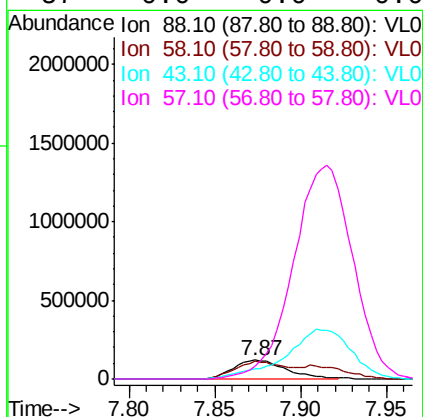
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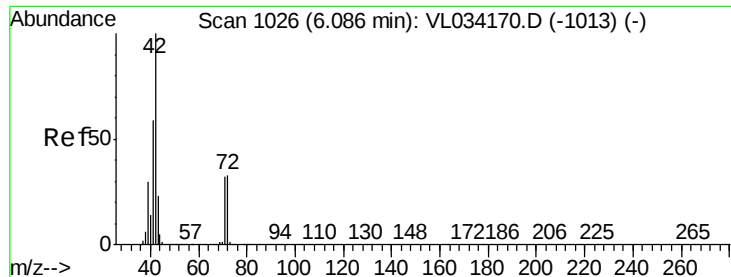
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#40
 1,4-Dioxane
 Concen: 9.155 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
88	100		
58	151.4	131.8	197.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 9.005 ppbv

RT: 6.08 min Scan# 1023

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

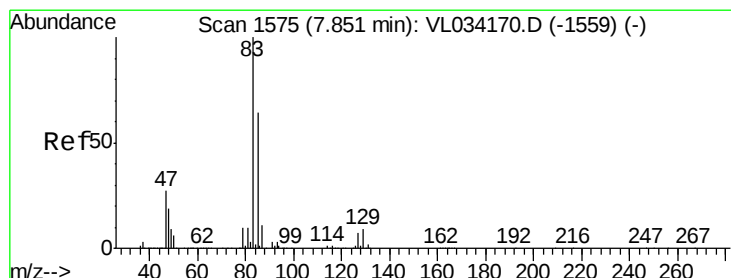
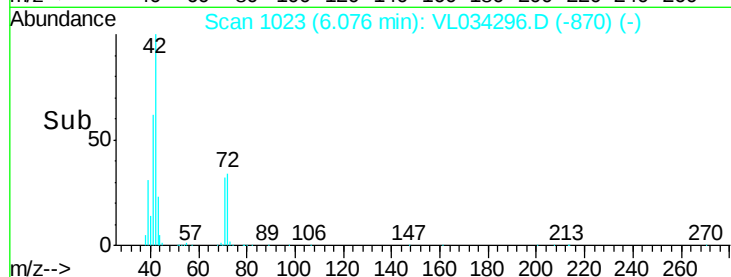
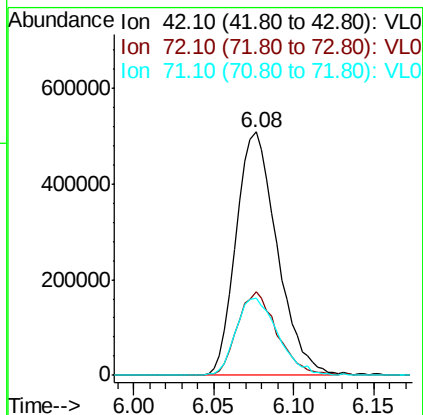
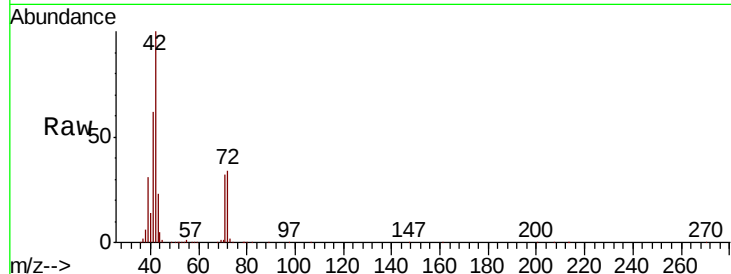
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	890058
Ion Ratio		Lower	Upper
42	100		
72	33.5	26.6	40.0
71	32.7	25.1	37.7

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#42

Bromodichloromethane

Concen: 9.993 ppbv

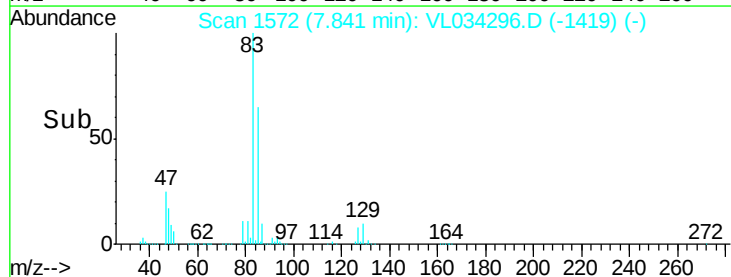
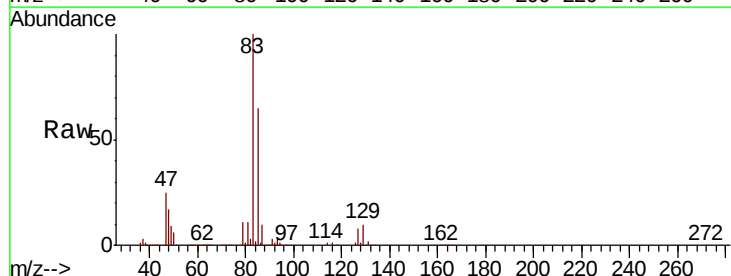
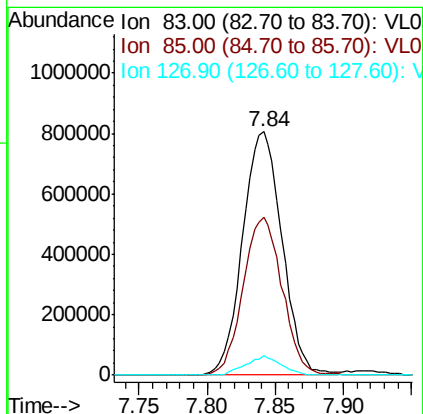
RT: 7.84 min Scan# 1572

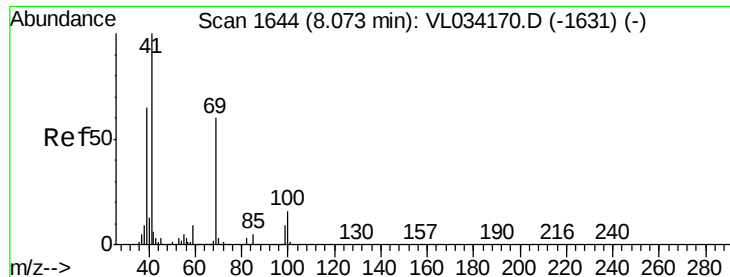
Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion:	83	Resp:	1619274
Ion Ratio		Lower	Upper
83	100		
85	64.7	51.4	77.0
127	8.3	5.5	8.3





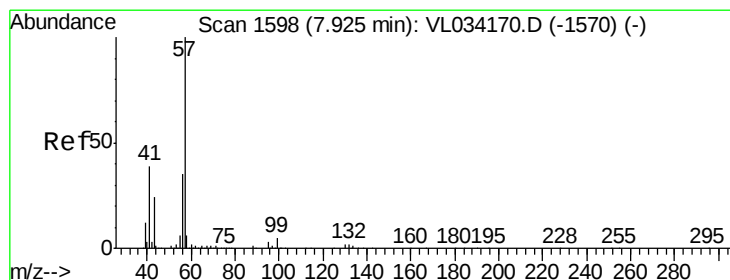
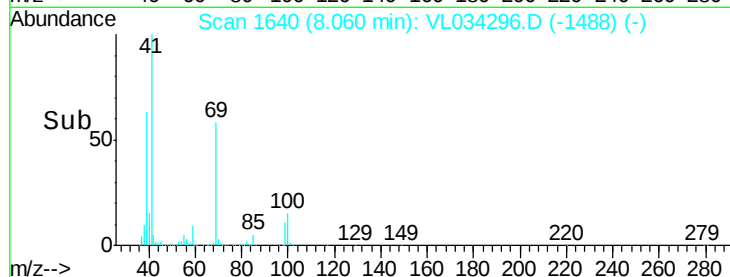
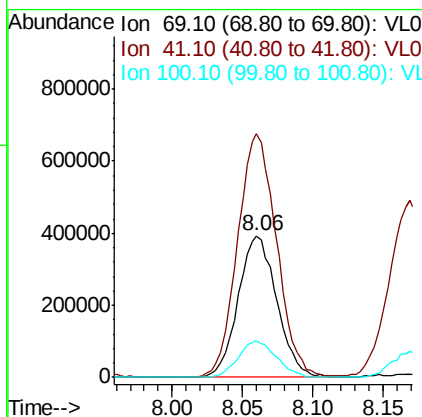
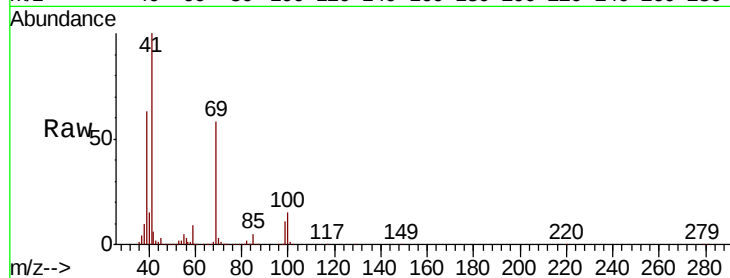
#43
Methvl Methacrylate
Concen: 9.580 ppbv
RT: 8.06 min Scan# 1640
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	173.9	140.4	210.6
100	25.9	21.9	32.9

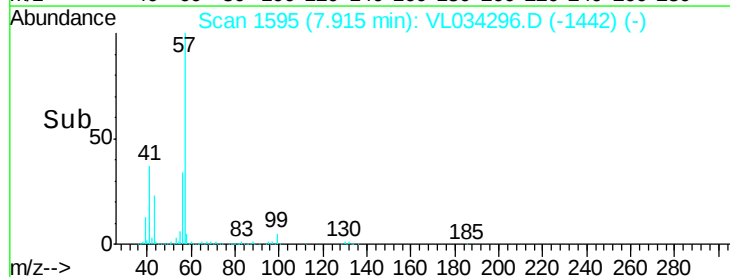
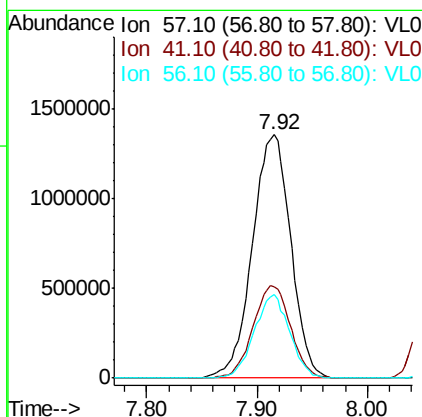
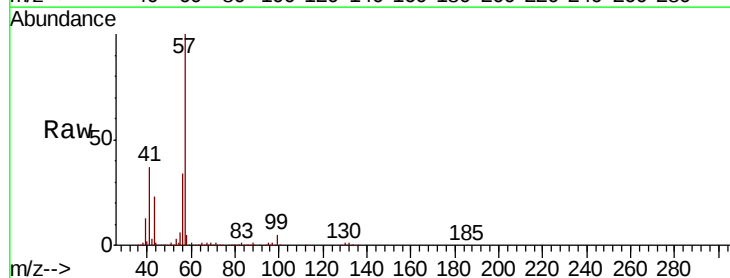
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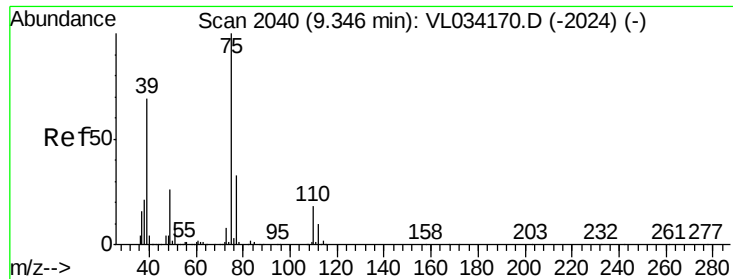
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#44
2,2,4-Trimethylpentane
Concen: 8.980 ppbv
RT: 7.92 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.1	29.8	44.6
56	31.7	25.9	38.9





#45

t-1,3-Dichloropropene

Concen: 10.959 ppbv

RT: 9.34 min Scan# 2037

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1016106

Ion Ratio Lower Upper

75 100

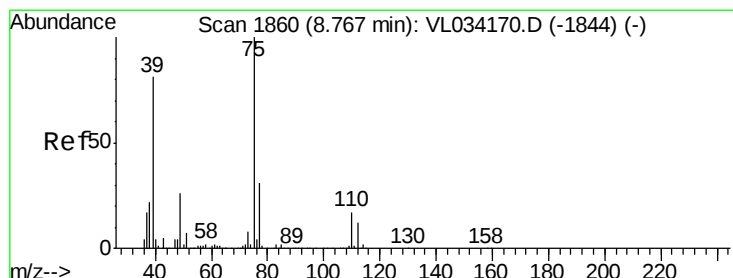
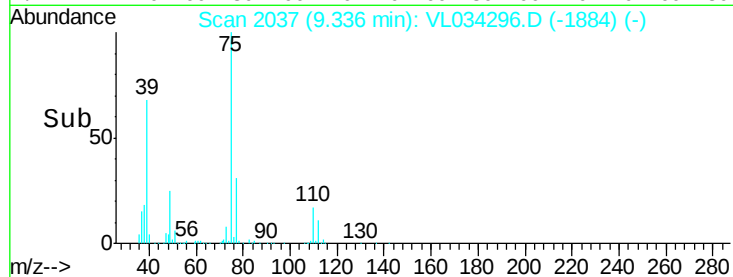
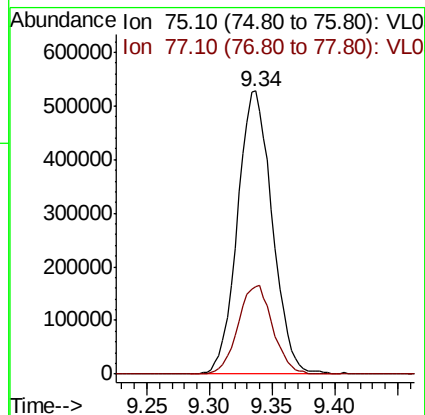
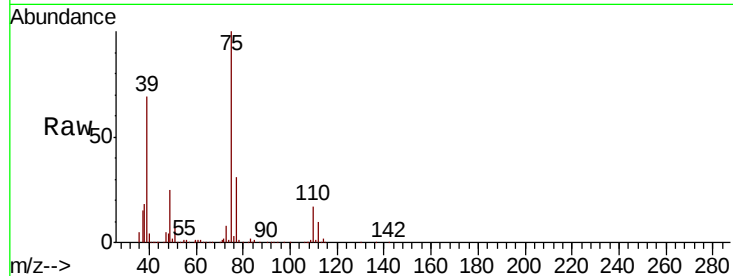
77 30.8 26.2 39.2

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#46

cis-1,3-Dichloropropene

Concen: 10.141 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

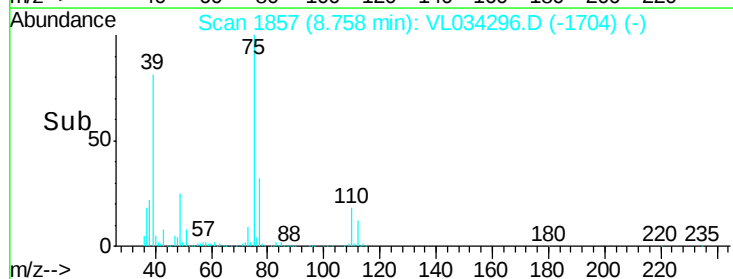
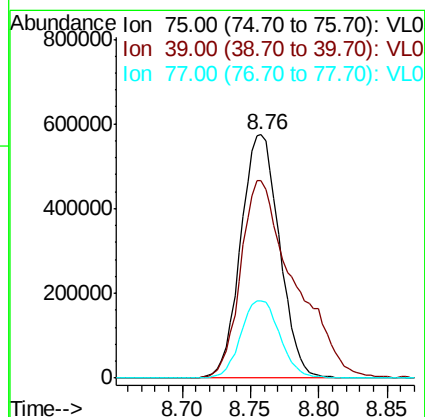
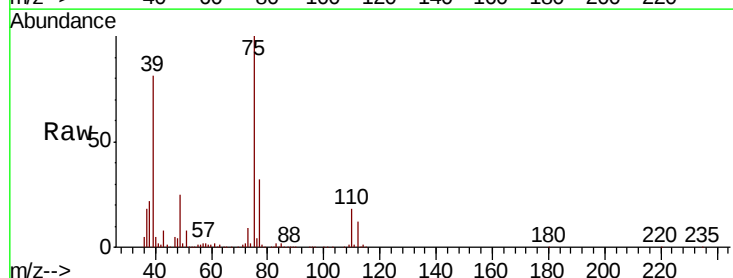
Tgt Ion: 75 Resp: 1131054

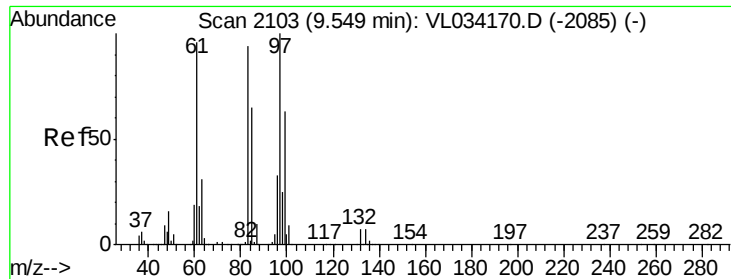
Ion Ratio Lower Upper

75 100

39 81.0 65.0 97.4

77 32.0 24.5 36.7





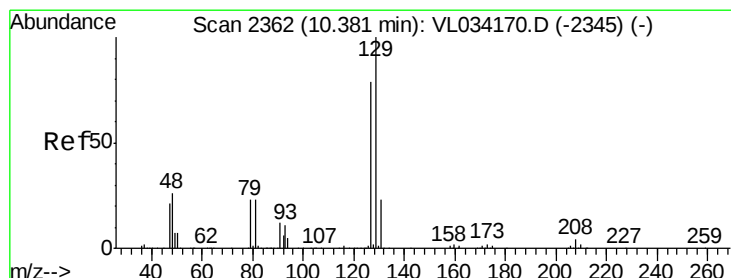
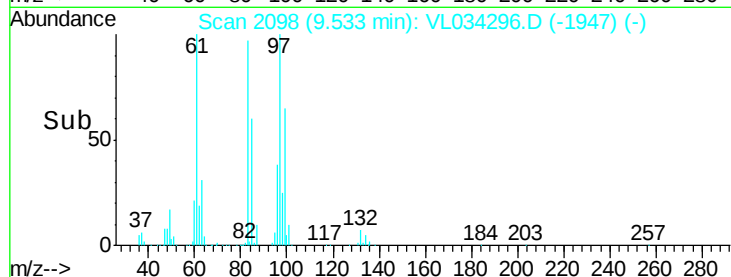
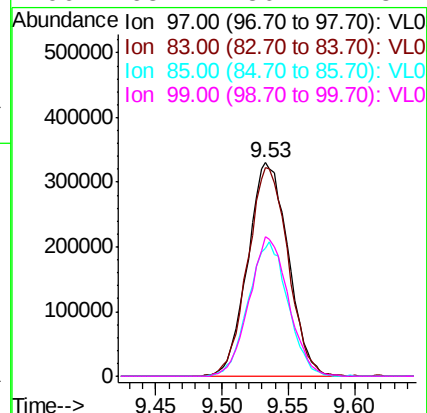
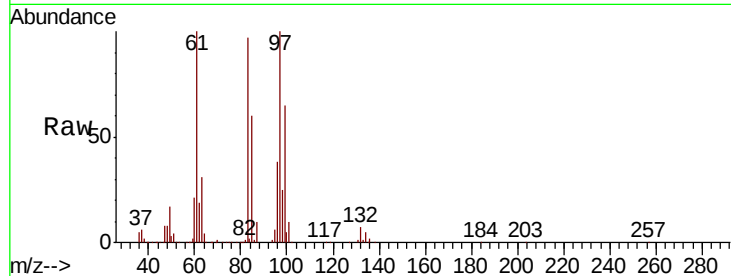
#47
 1,1,2-Trichloroethane
 Concen: 9.170 ppbv
 RT: 9.53 min Scan# 2098
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	97.6	75.3	112.9	
85	59.9	52.1	78.1	
99	65.1	50.2	75.2	

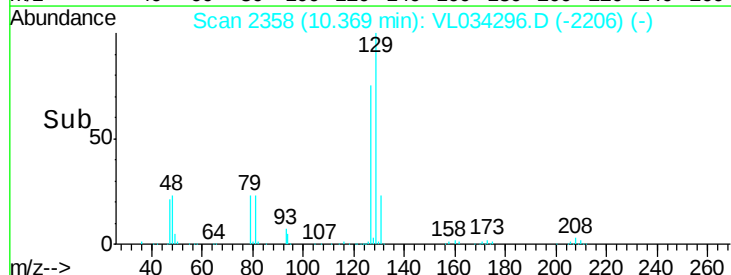
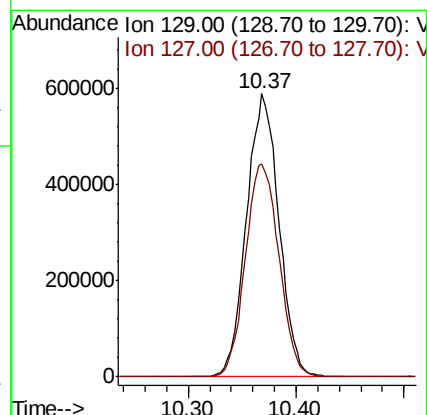
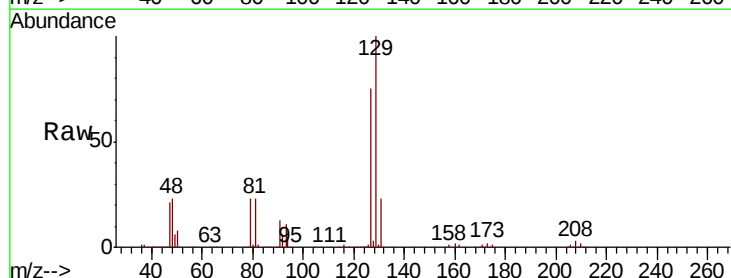
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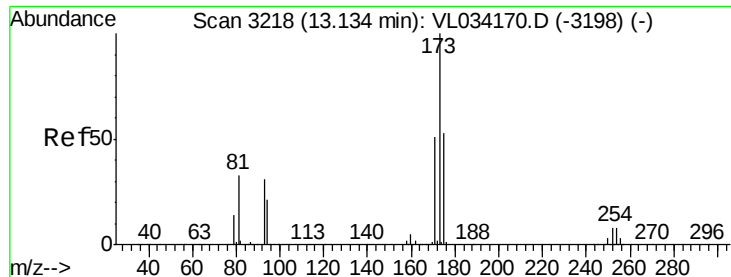
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#48
 Dibromochloromethane
 Concen: 10.162 ppbv
 RT: 10.37 min Scan# 2358
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.2	39.2	117.6	





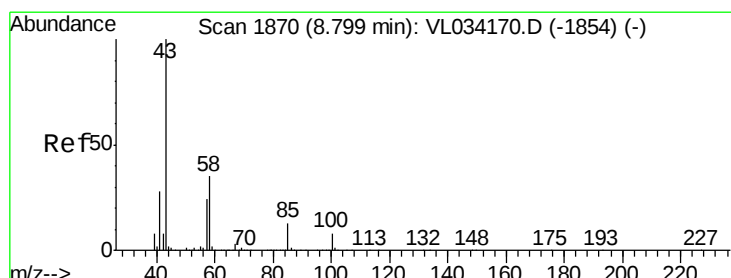
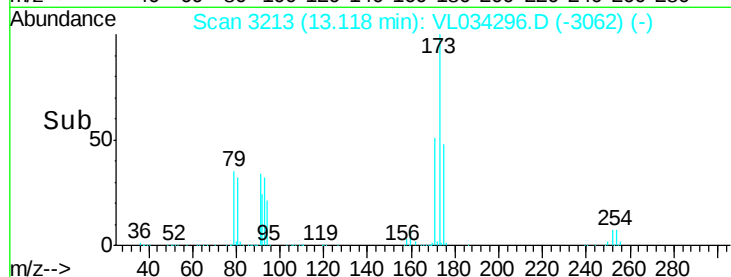
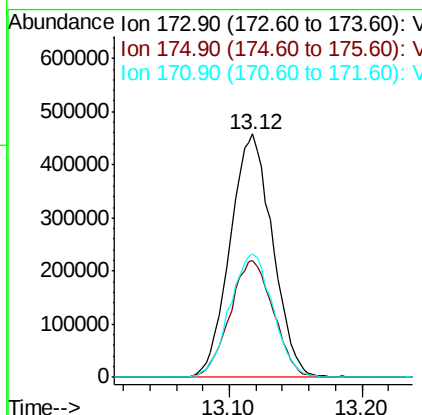
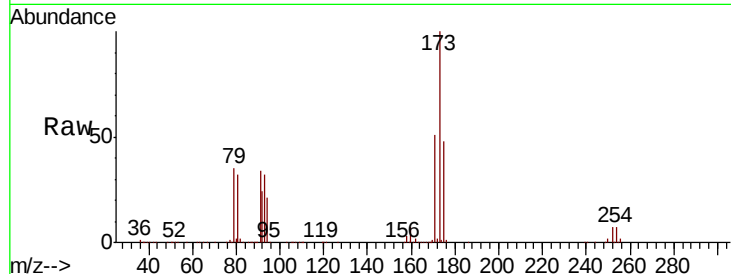
#49
Bromoform
Concen: 10.298 ppbv
RT: 13.12 min Scan# 3213
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1011570
Ion Ratio Lower Upper
173 100
175 49.5 40.3 60.5
171 51.8 42.0 63.0

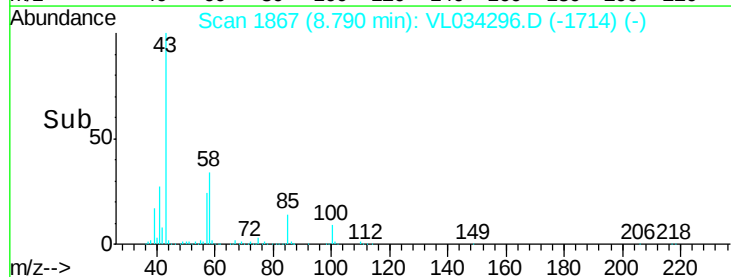
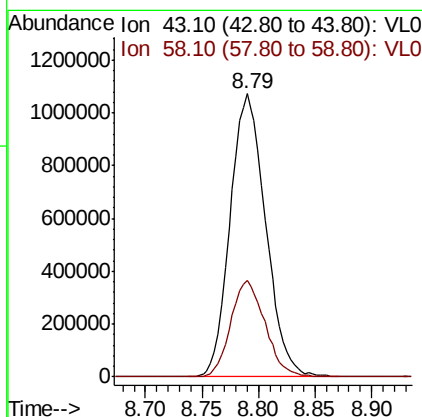
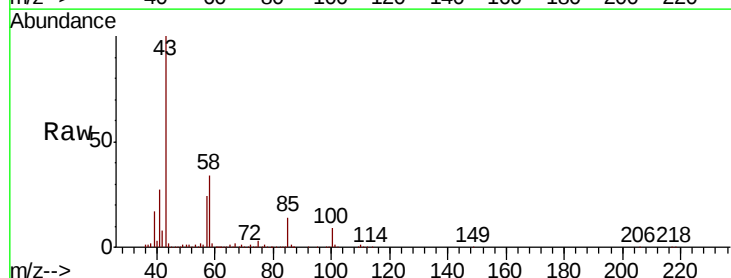
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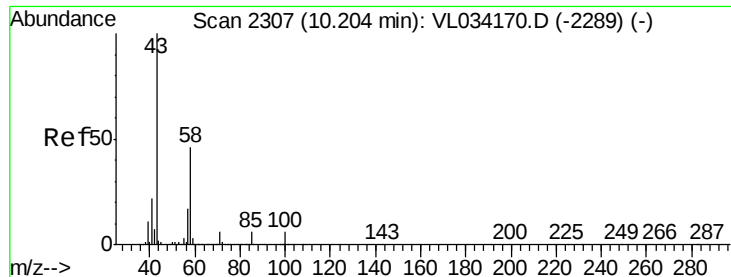
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#50
4-Methyl-2-Pentanone
Concen: 9.164 ppbv
RT: 8.79 min Scan# 1867
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion: 43 Resp: 2340451
Ion Ratio Lower Upper
43 100
58 33.0 27.6 41.4





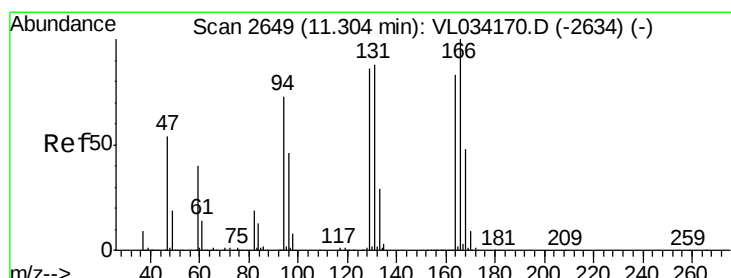
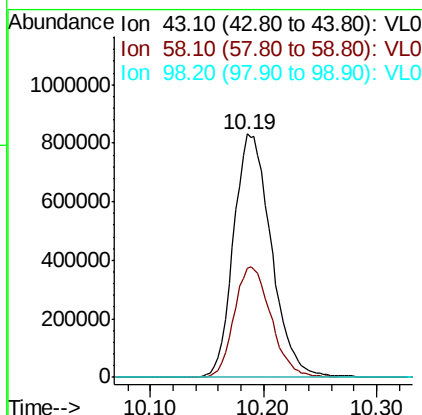
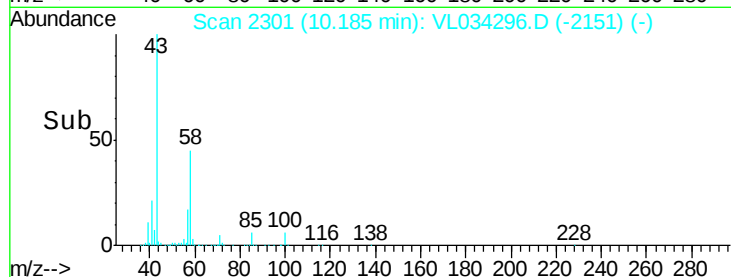
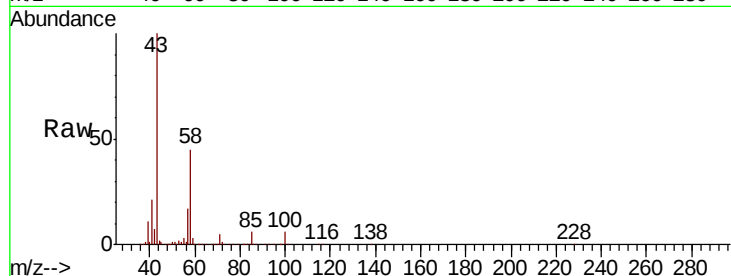
#51
2-Hexanone
Concen: 8.985 ppbv
RT: 10.19 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1925966
Ion Ratio Lower Upper
43 100
58 44.6 36.2 54.4
98 0.1 0.2 0.2#

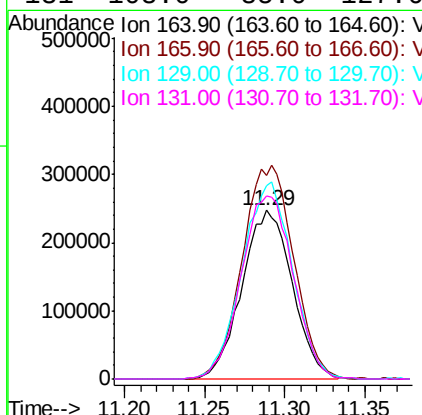
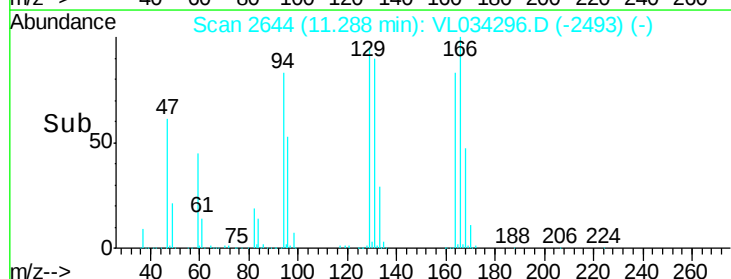
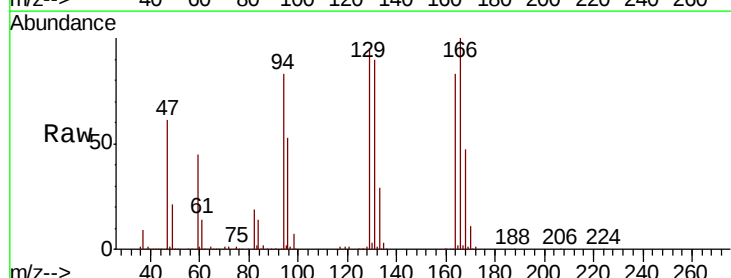
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#52
Tetrachloroethene
Concen: 8.503 ppbv
RT: 11.29 min Scan# 2644
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion: 164 Resp: 533306
Ion Ratio Lower Upper
164 100
166 120.5 96.7 145.1
129 114.3 82.8 124.2
131 108.0 85.0 127.6





#53

Toluene

Concen: 9.269 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 1923039

Ion Ratio Lower Upper

91 100

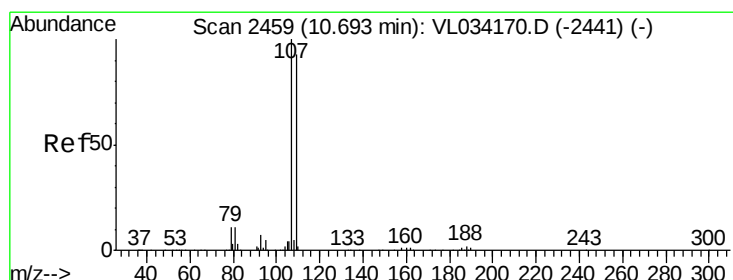
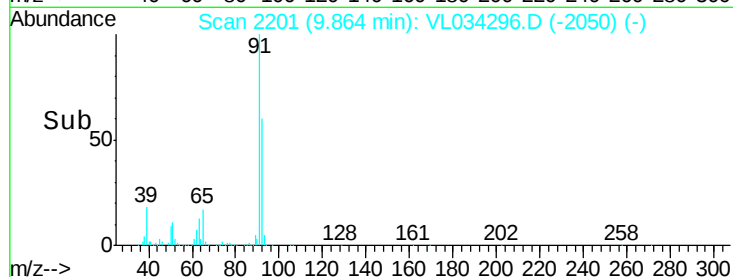
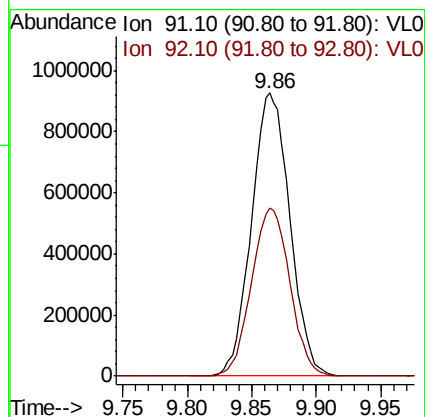
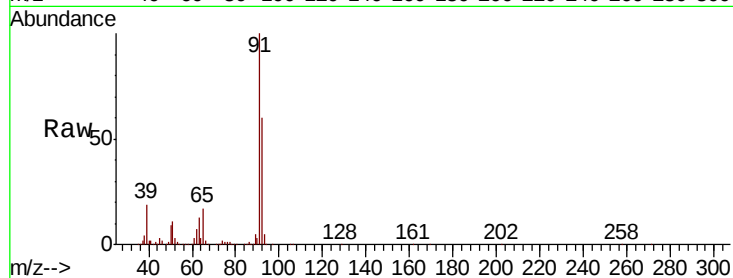
92 59.5 49.0 73.6

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#54

1,2-Dibromoethane

Concen: 9.420 ppbv

RT: 10.68 min Scan# 2454

Delta R.T. -0.02 min

Lab File: VL034296.D

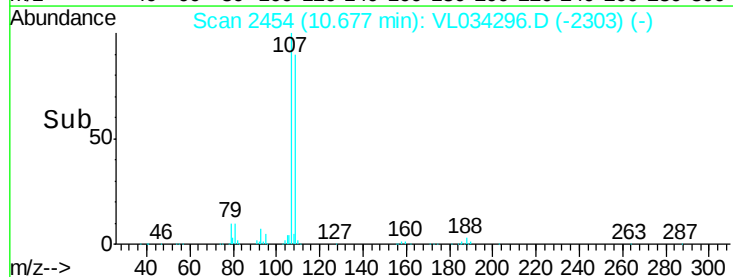
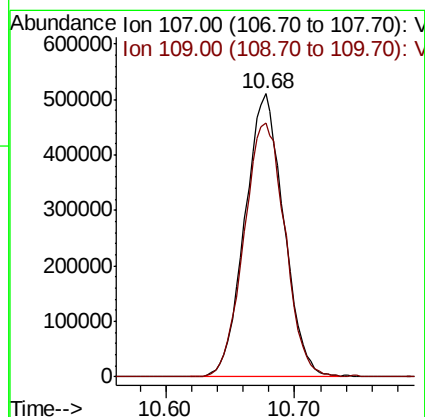
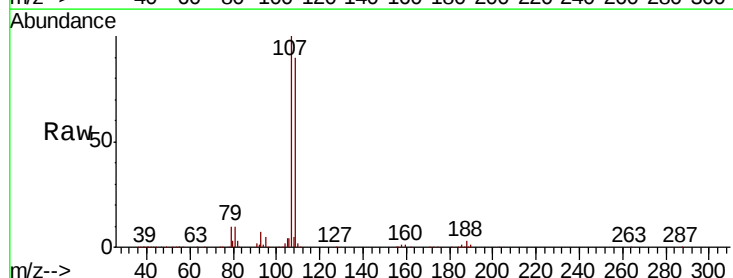
Acq: 15 Oct 2019 00:37

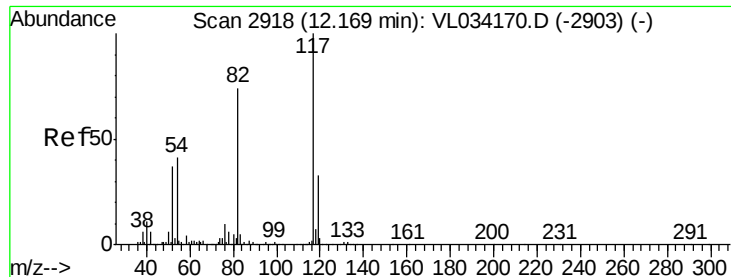
Tgt Ion: 107 Resp: 1072920

Ion Ratio Lower Upper

107 100

109 89.7 74.5 111.7





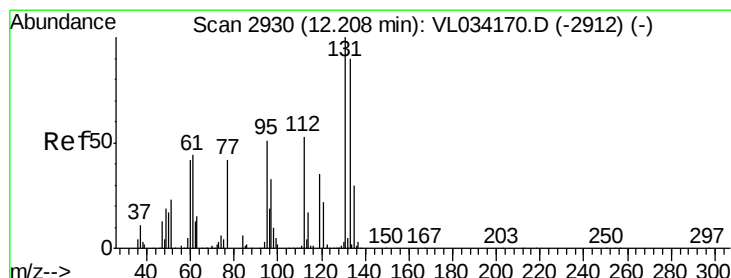
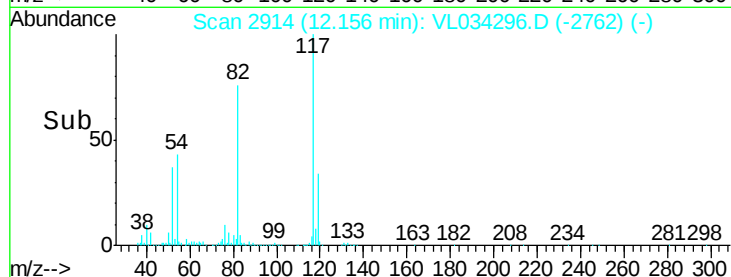
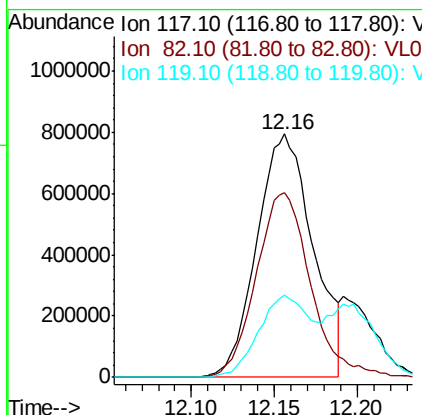
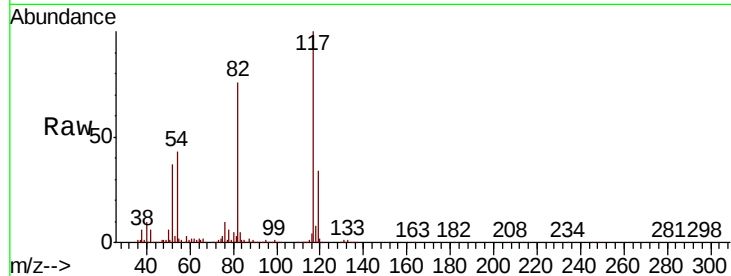
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 1872732
Ion Ratio Lower Upper
117 100
82 73.8 58.2 87.4
119 32.3 23.7 35.5

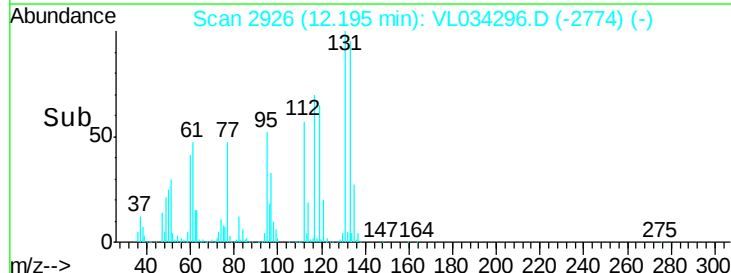
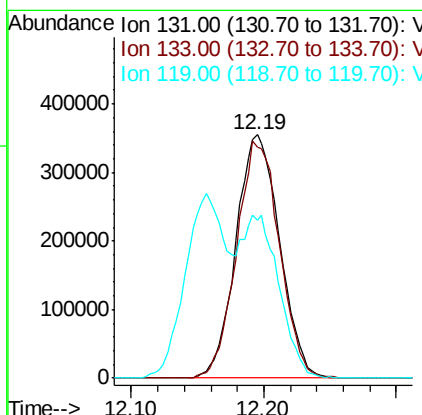
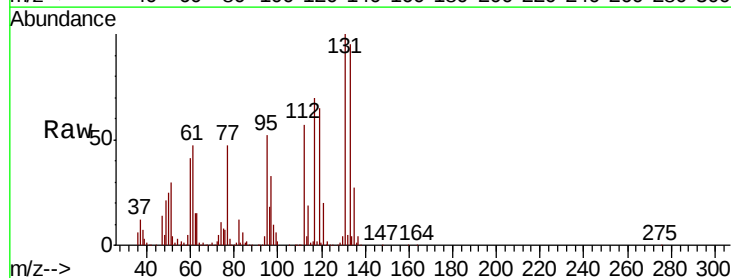
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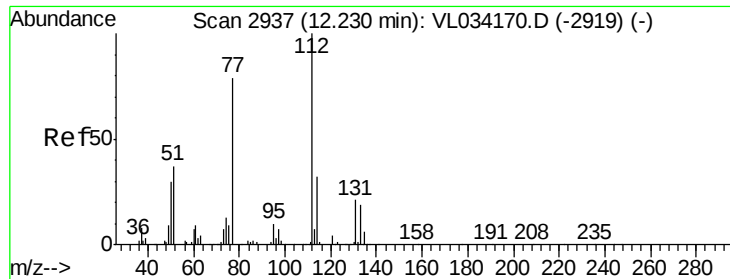
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.706 ppbv
RT: 12.19 min Scan# 2926
Delta R.T. -0.01 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion:131 Resp: 810592
Ion Ratio Lower Upper
131 100
133 95.9 75.1 112.7
119 57.8 47.4 71.0





#57

Chlorobenzene

Concen: 8.683 ppbv

RT: 12.22 min Scan# 2933

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

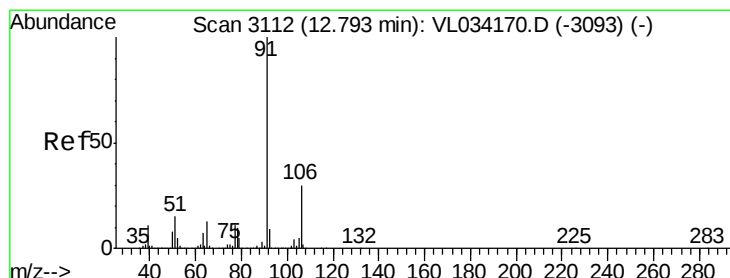
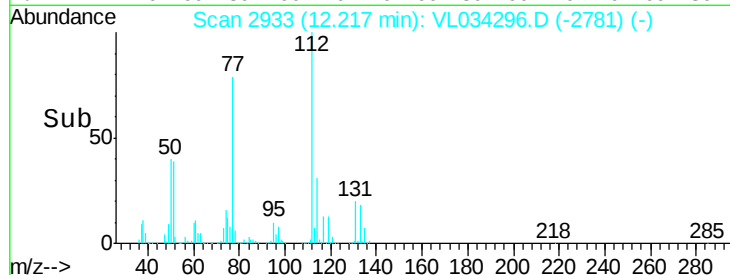
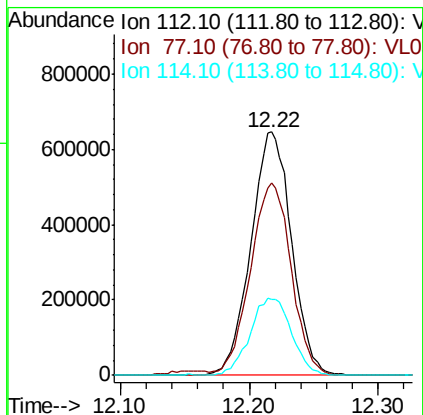
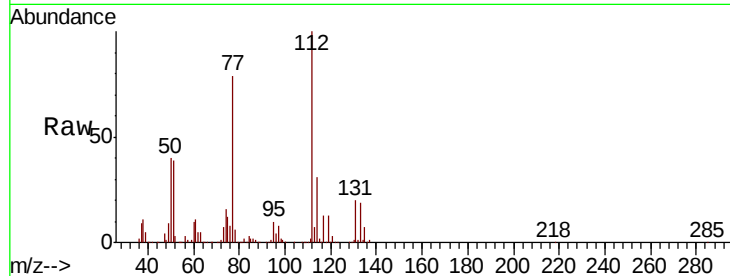
VSTDCCC010EC

Tot Ion:112 Resp: 1415714

Ion	Ratio	Lower	Upper
112	100		
77	78.5	64.3	96.5
114	30.9	28.9	35.3

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#58

Ethyl Benzene

Concen: 8.870 ppbv

RT: 12.78 min Scan# 3108

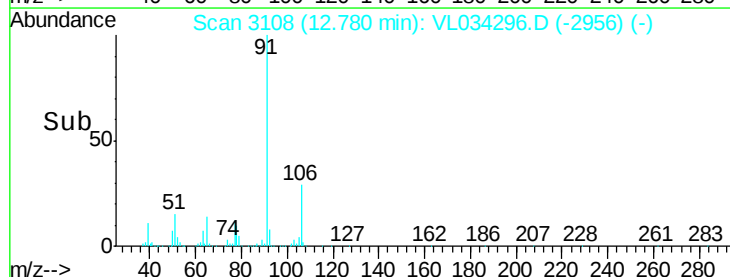
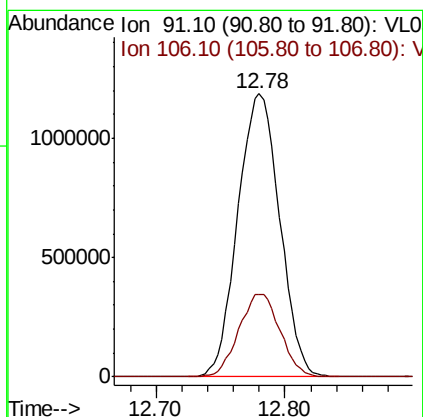
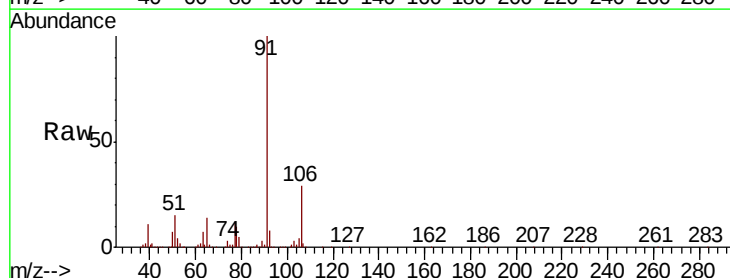
Delta R.T. -0.01 min

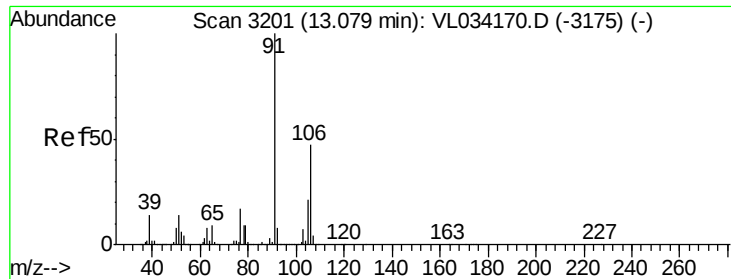
Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion: 91 Resp: 2680315

Ion	Ratio	Lower	Upper
91	100		
106	29.2	24.2	36.4





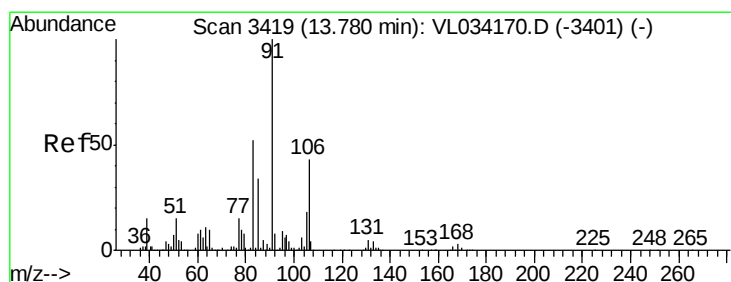
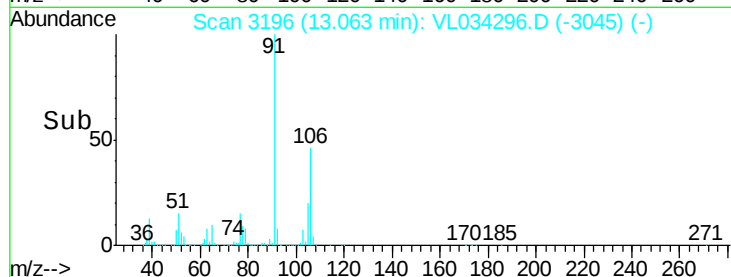
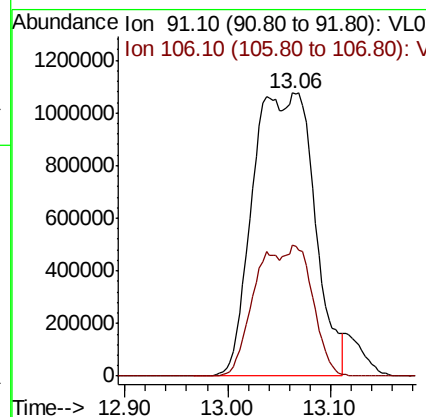
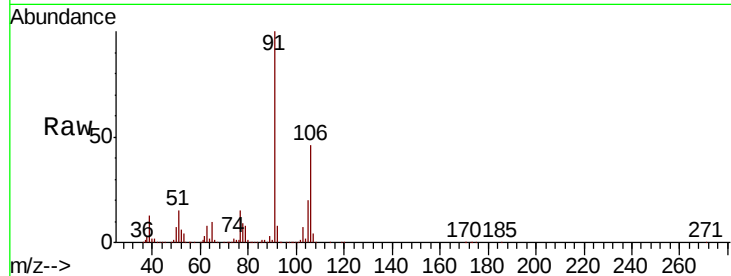
#59
m/p-Xylene
Concen: 17.875 ppbv m
RT: 13.06 min Scan# 3196
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 4473692
Ion Ratio Lower Upper
91 100
106 42.5 35.5 53.3

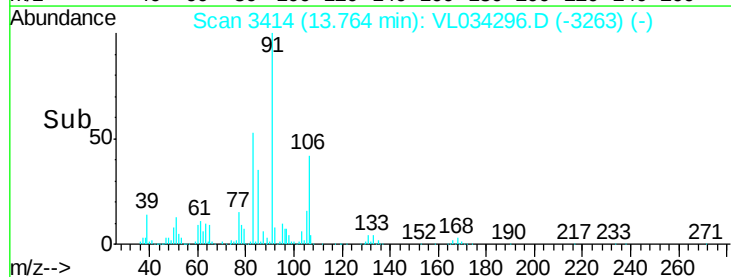
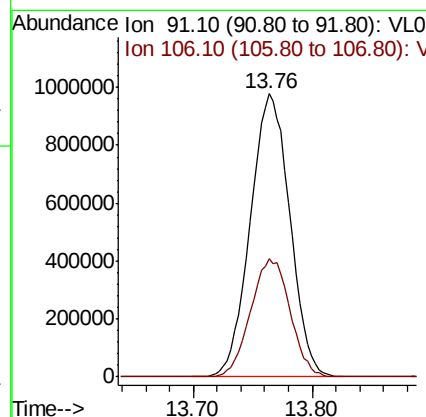
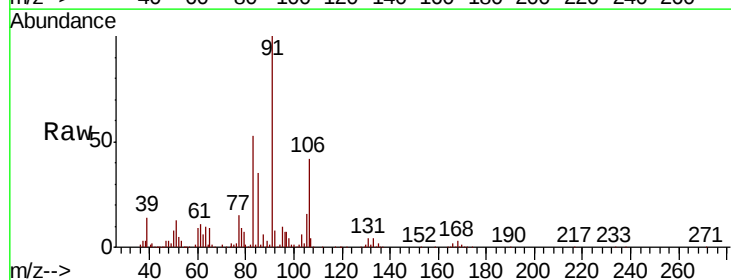
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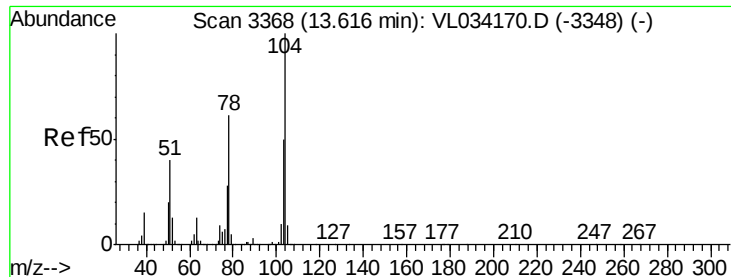
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#60
o-Xylene
Concen: 8.967 ppbv
RT: 13.76 min Scan# 3414
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion: 91 Resp: 2244030
Ion Ratio Lower Upper
91 100
106 41.7 21.2 63.6





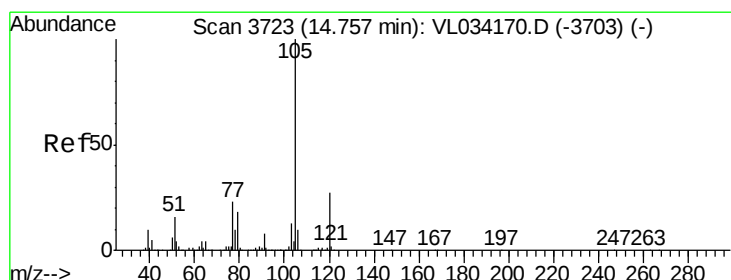
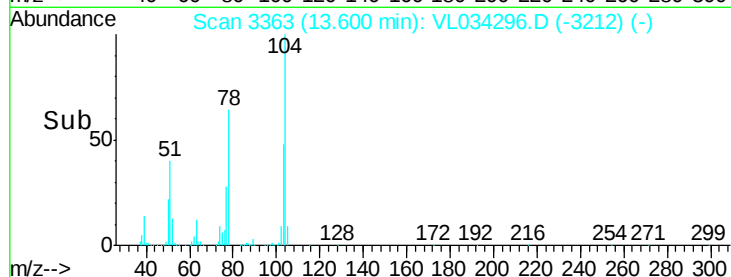
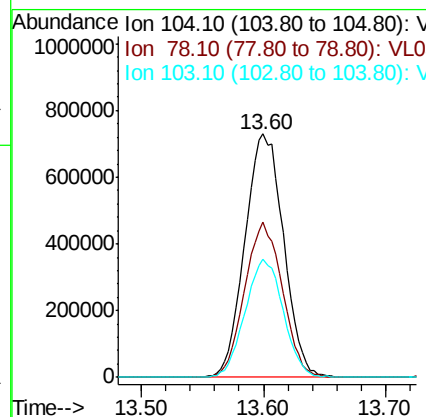
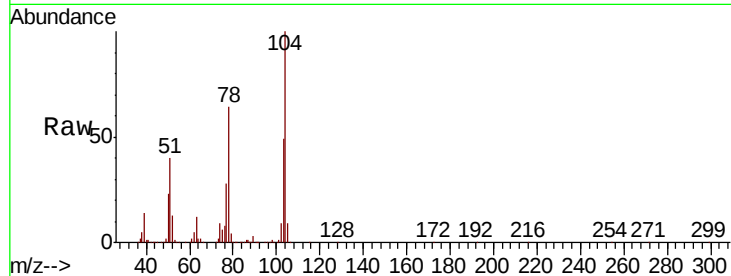
#61
Stvrene
Concen: 8.919 ppbv
RT: 13.60 min Scan# 3363
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.3	49.7	74.5
103	47.6	38.4	57.6

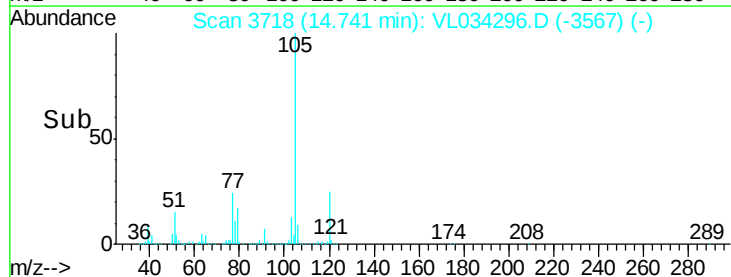
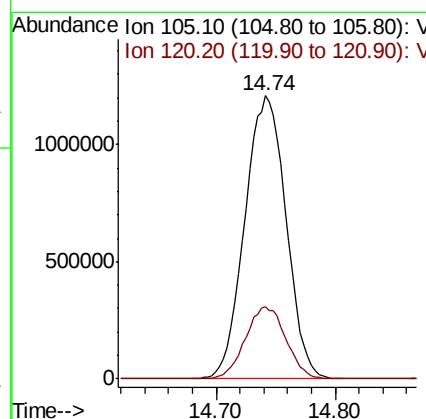
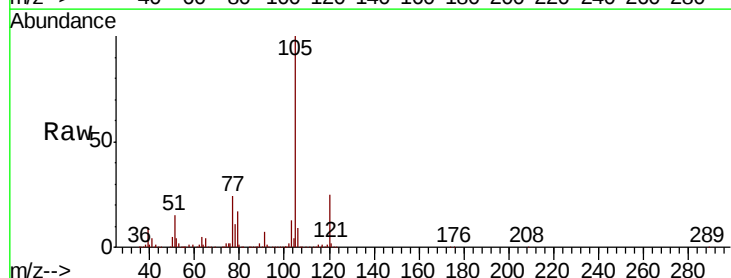
Manual Integrations
APPROVED

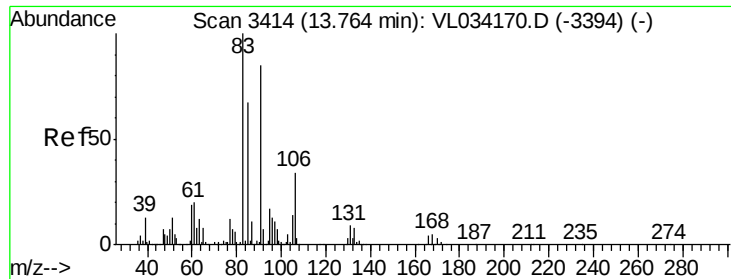
MMDadoda
10/16/2019 12:59:43 AM



#62
Isopropylbenzene
Concen: 8.939 ppbv
RT: 14.74 min Scan# 3718
Delta R.T. -0.02 min
Lab File: VL034296.D
Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.7	31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 7.995 ppbv

RT: 13.75 min Scan# 3410

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1640795

Ion Ratio Lower Upper

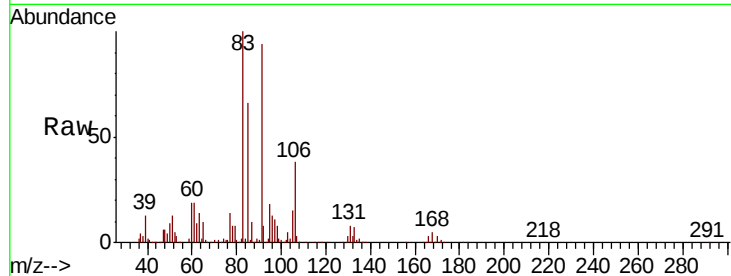
83 100

131 8.6 4.3 12.8

85 65.2 32.8 98.4

Manual Integrations
APPROVED

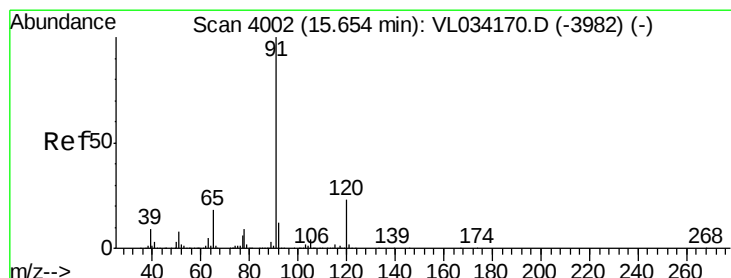
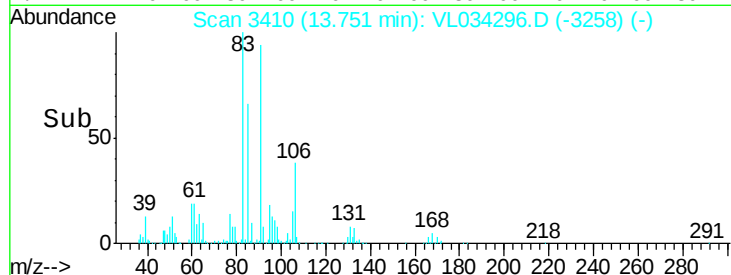
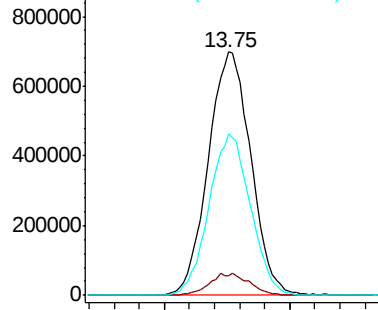
MMDadoda
10/16/2019 12:59:43 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.892 ppbv

RT: 15.64 min Scan# 3997

Delta R.T. -0.02 min

Lab File: VL034296.D

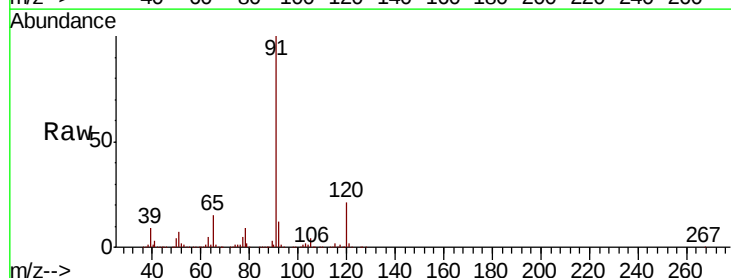
Acq: 15 Oct 2019 00:37

Tgt Ion: 120 Resp: 728783

Ion Ratio Lower Upper

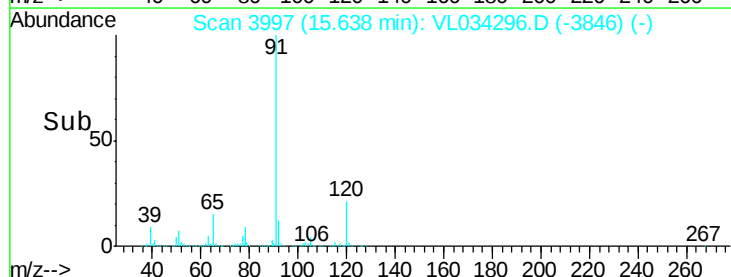
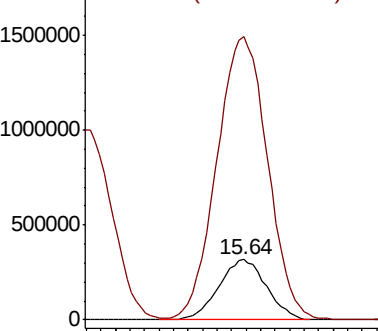
120 100

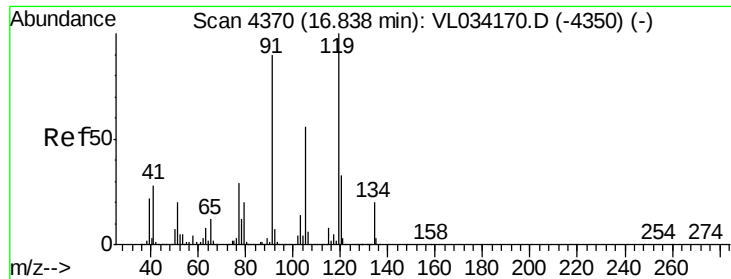
91 499.7 378.2 567.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.712 ppbv

RT: 16.82 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 2466269

Ion Ratio Lower Upper

119 100

91 94.8 74.9 112.3

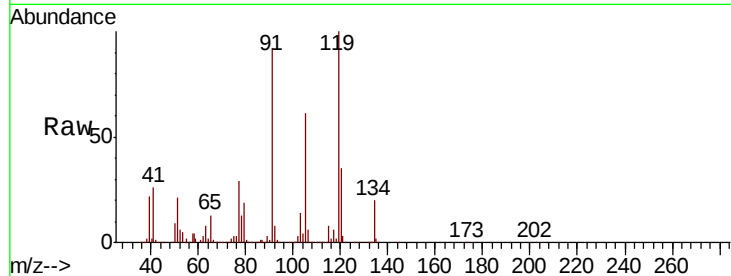
134 19.1 15.8 23.6

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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

1200000

1000000

800000

600000

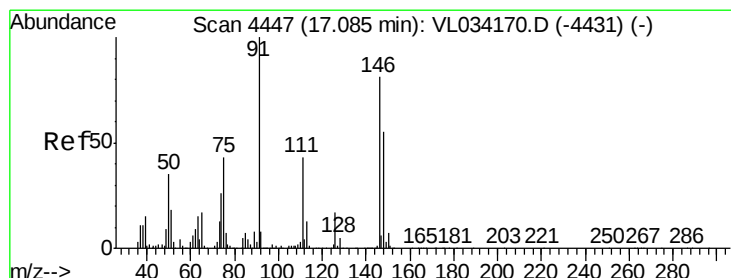
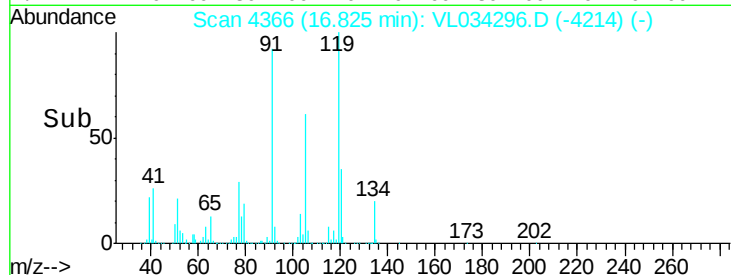
400000

200000

0

16.70 16.80 16.90

Time-->



#66

Benzyl Chloride

Concen: 12.021 ppbv

RT: 17.07 min Scan# 4443

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

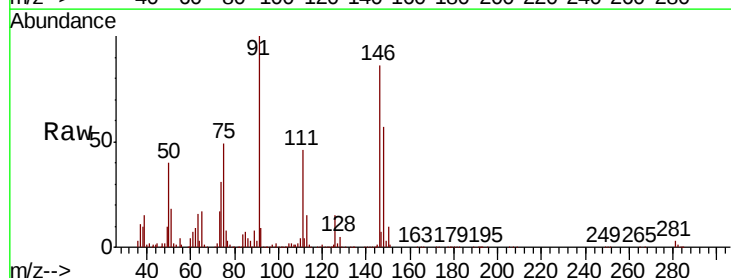
Tgt Ion: 91 Resp: 1203860

Ion Ratio Lower Upper

91 100

126 15.0 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

600000

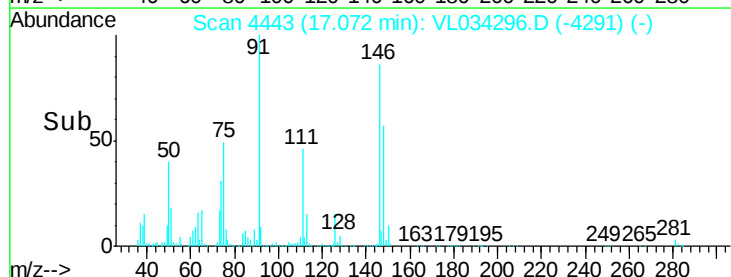
400000

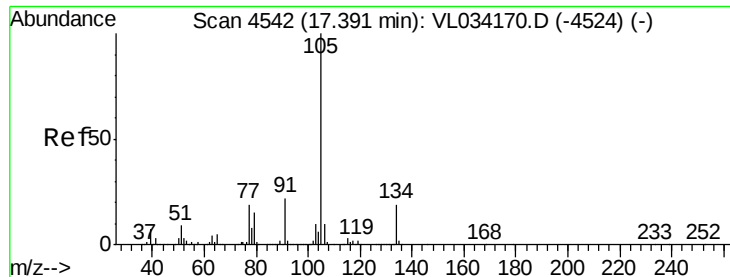
200000

0

17.00 17.10

Time-->





#67

sec-Butylbenzene

Concen: 8.885 ppbv

RT: 17.37 min Scan# 4537

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 3596496

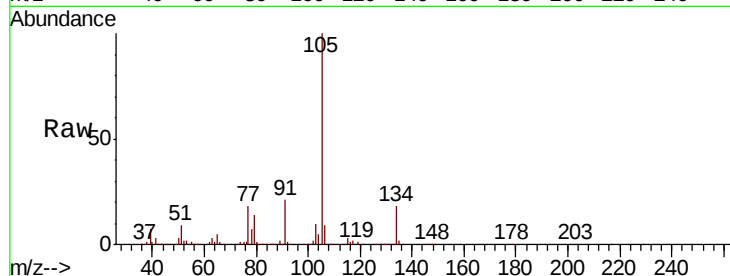
Ion Ratio Lower Upper

105 100

134 17.7 14.6 22.0

Manual Integrations
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10/16/2019 12:59:43 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.37

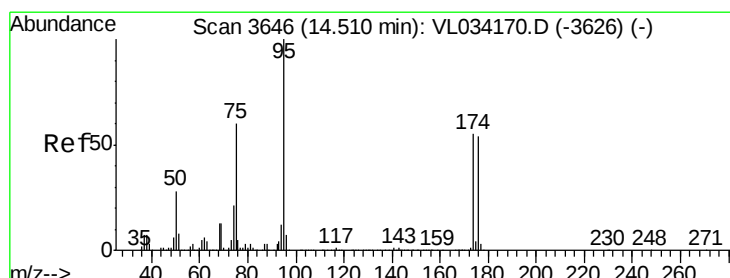
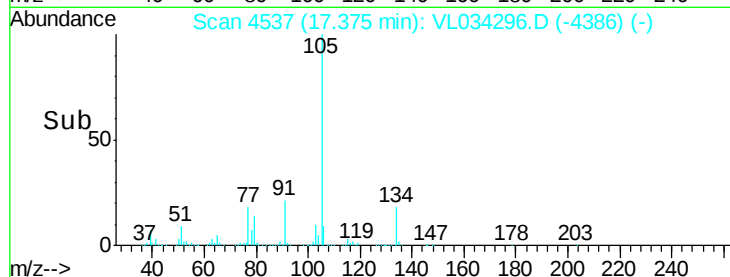
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.853 ppbv

RT: 14.49 min Scan# 3640

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

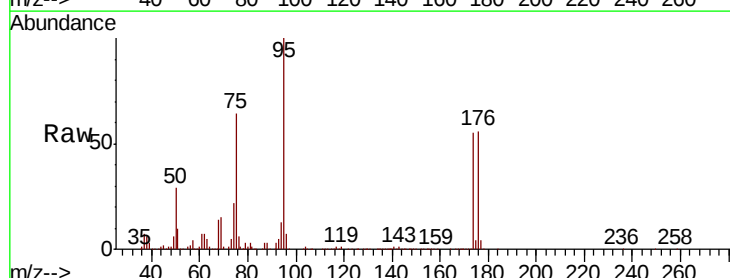
Tgt Ion: 95 Resp: 1603285

Ion Ratio Lower Upper

95 100

174 55.2 45.1 67.7

175 4.1 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

14.49

800000

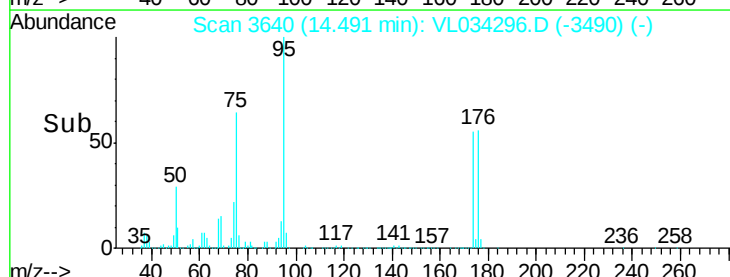
600000

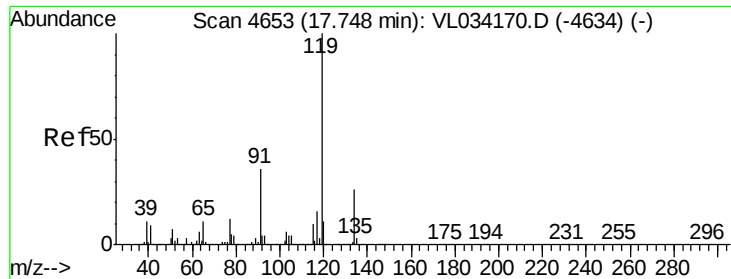
400000

200000

0

Time-->





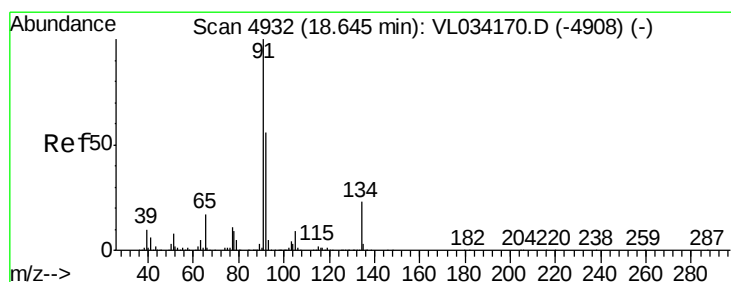
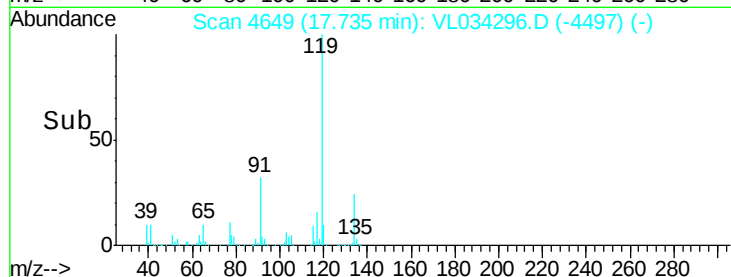
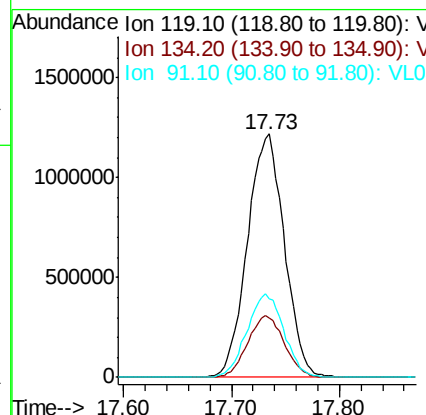
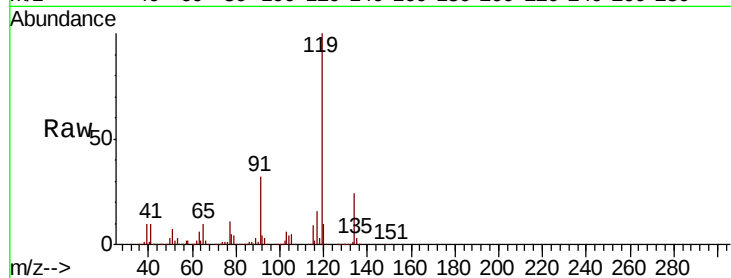
#69
 p-Isopropyltoluene
 Concen: 8.832 ppbv
 RT: 17.73 min Scan# 4649
 Delta R.T. -0.01 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.6	30.8
91	34.3	27.6	41.4

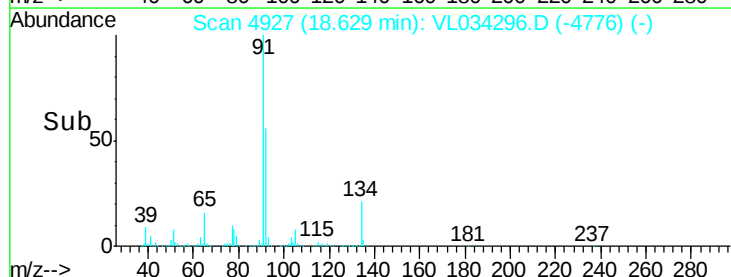
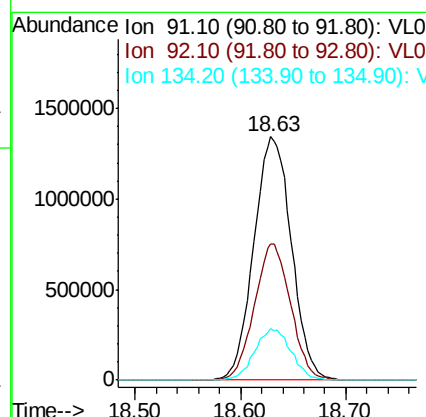
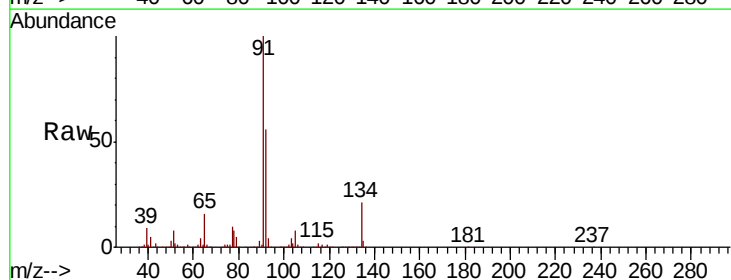
Manual Integrations
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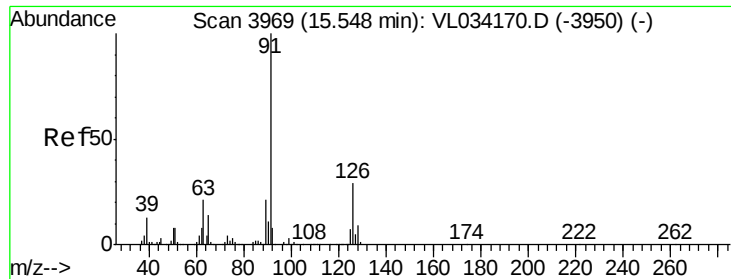
MMDadoda
 10/16/2019 12:59:43 AM



#70
 n-Butylbenzene
 Concen: 8.735 ppbv
 RT: 18.63 min Scan# 4927
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	44.8	67.2
134	20.4	17.3	25.9





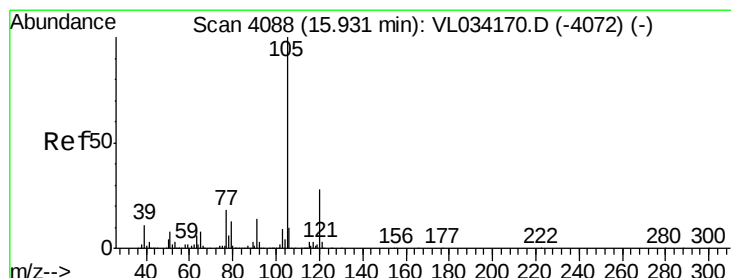
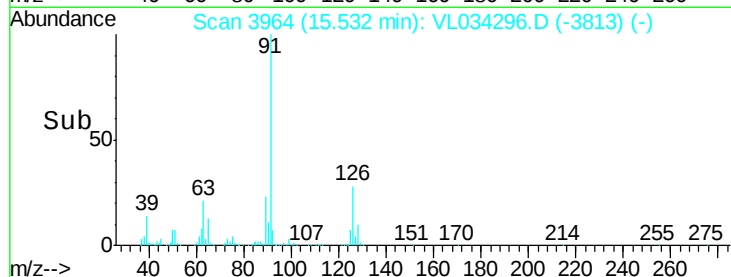
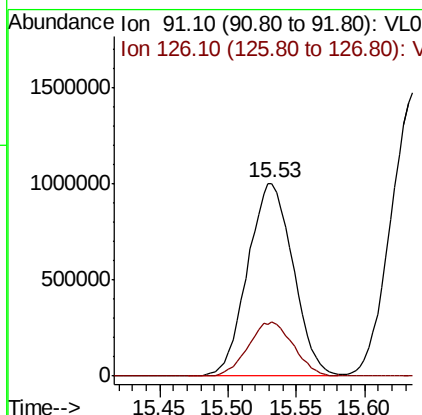
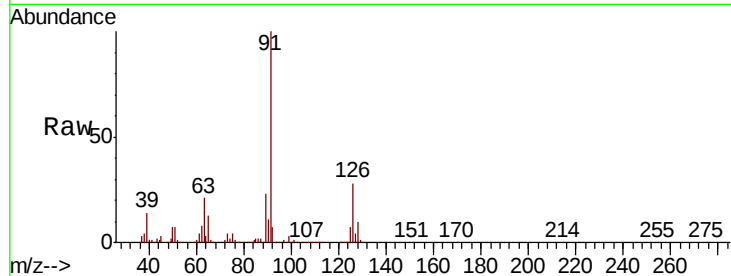
#71
 2-Chlorotoluene
 Concen: 8.760 ppbv
 RT: 15.53 min Scan# 3964
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2318756
 Ion Ratio Lower Upper
 91 100
 126 27.8 11.2 45.0

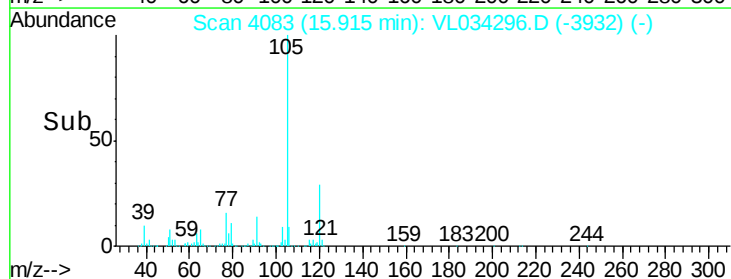
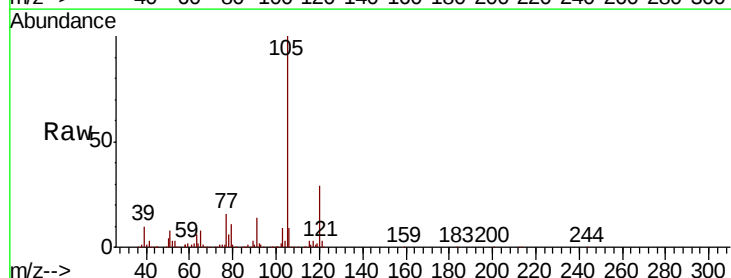
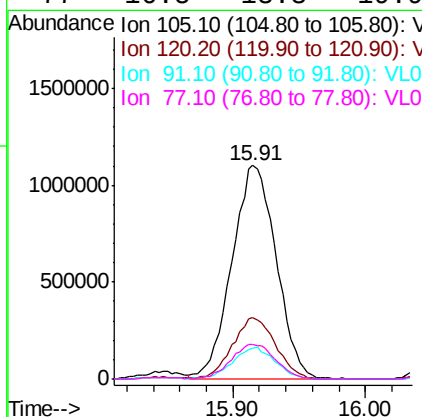
Manual Integrations
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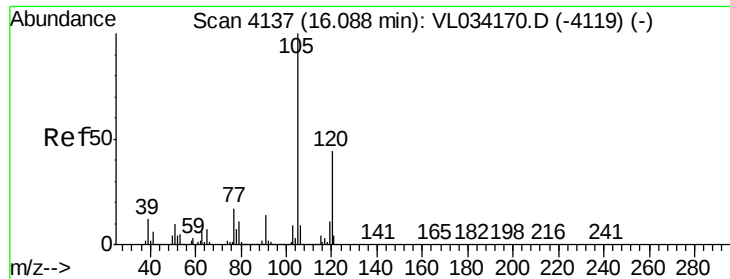
MMDadoda
 10/16/2019 12:59:43 AM



#72
 4-Ethyltoluene
 Concen: 8.961 ppbv
 RT: 15.91 min Scan# 4083
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Tgt Ion: 105 Resp: 2533606
 Ion Ratio Lower Upper
 105 100
 120 28.1 23.3 34.9
 91 14.2 11.4 17.2
 77 16.5 13.3 19.9





#73

1,3,5-Trimethylbenzene

Concen: 8.882 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2426242

Ion Ratio Lower Upper

105 100

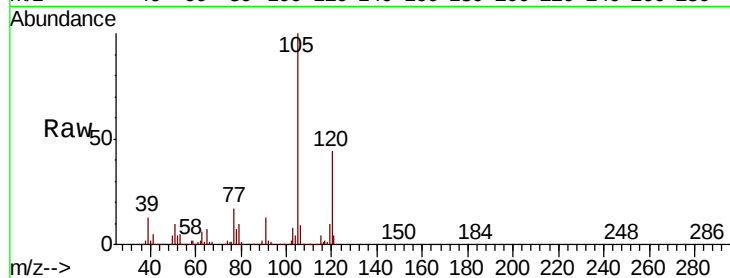
120 44.3 35.6 53.4

Manual Integrations

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MMDadoda

10/16/2019 12:59:43 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1200000

1000000

800000

600000

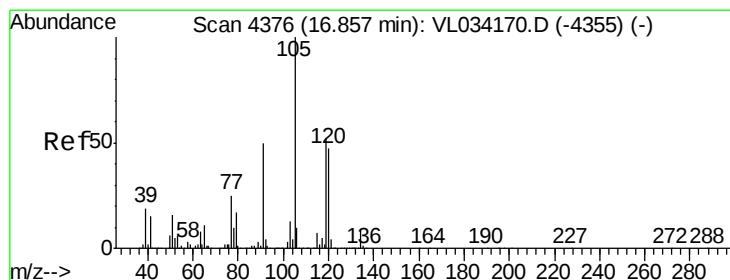
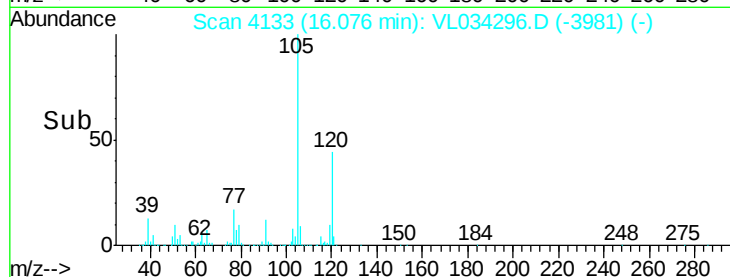
400000

200000

0

16.08

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 8.536 ppbv

RT: 16.84 min Scan# 4371

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion:105 Resp: 2475640

Ion Ratio Lower Upper

105 100

120 45.6 37.5 56.3

91 54.5 41.1 61.7

77 26.4 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

1500000

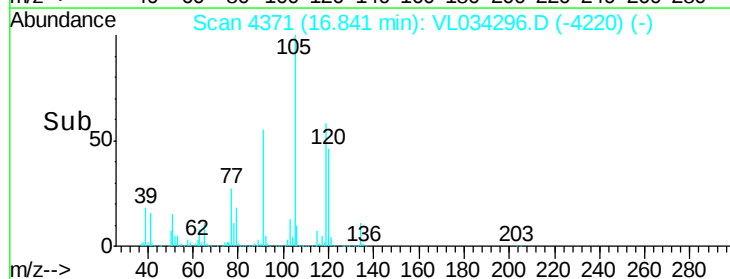
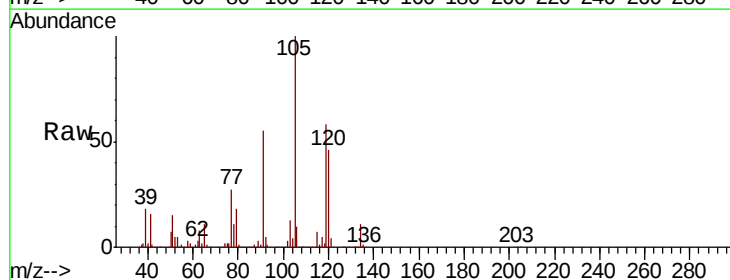
1000000

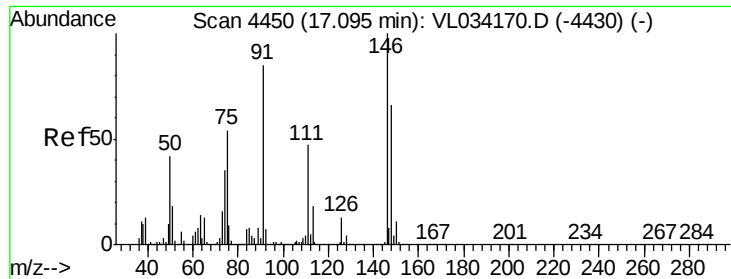
500000

0

16.84

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.505 ppbv

RT: 17.08 min Scan# 4445

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1323479

Ion Ratio Lower Upper

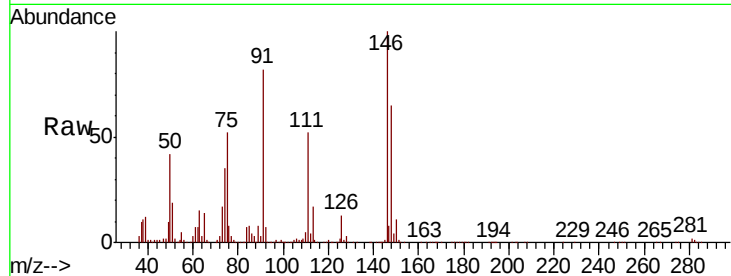
146 100

111 51.5 25.9 77.8

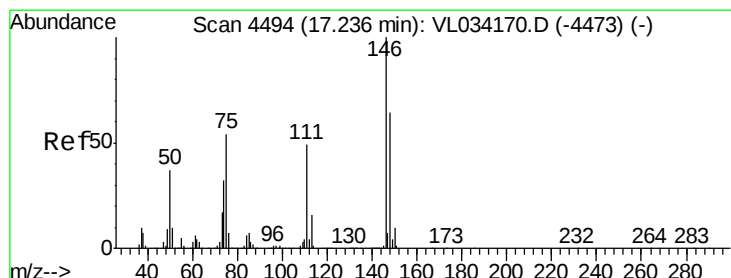
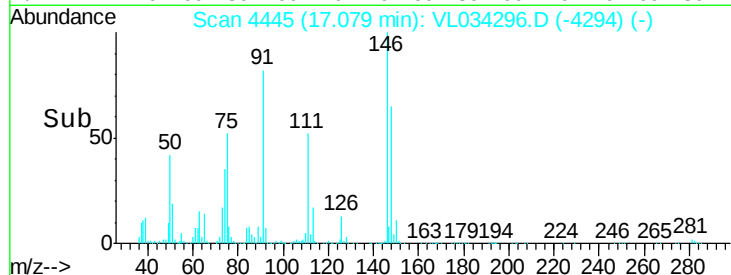
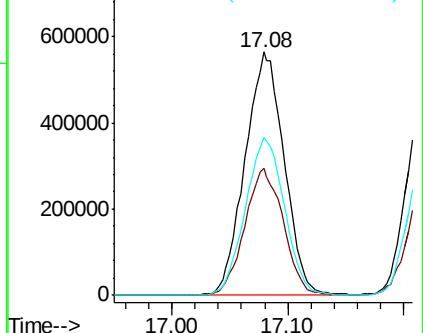
148 65.0 32.6 97.7

Manual Integrations
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MMDadoda
10/16/2019 12:59:43 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: 8.299 ppbv

RT: 17.22 min Scan# 4489

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

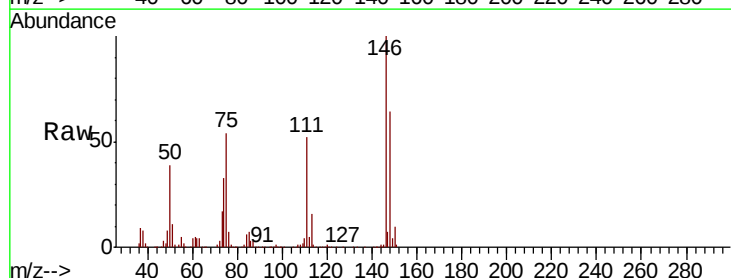
Tgt Ion:146 Resp: 1322659

Ion Ratio Lower Upper

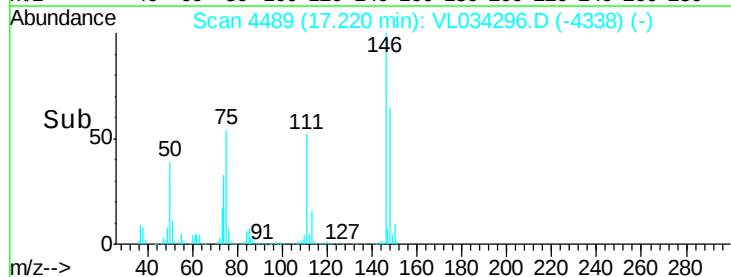
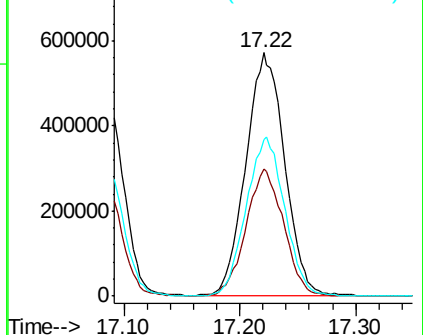
146 100

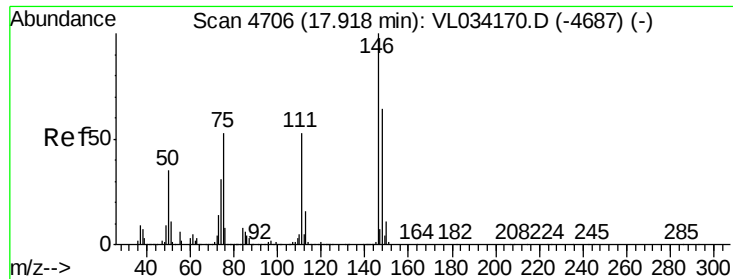
111 51.2 24.6 74.0

148 65.3 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: 8.387 ppbv

RT: 17.90 min Scan# 4701

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :
MSVOA_L

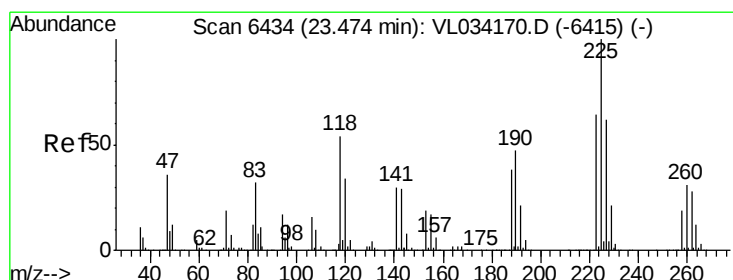
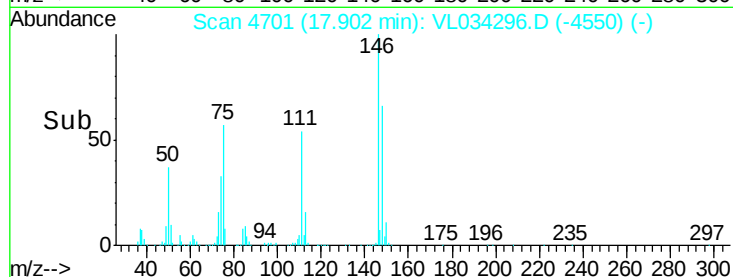
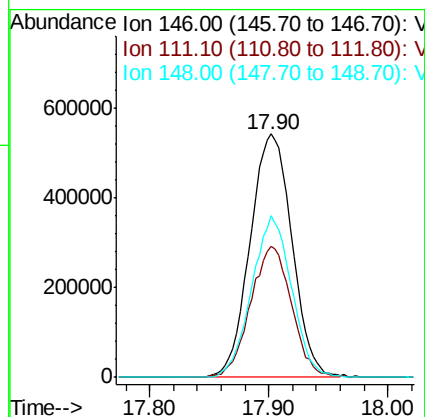
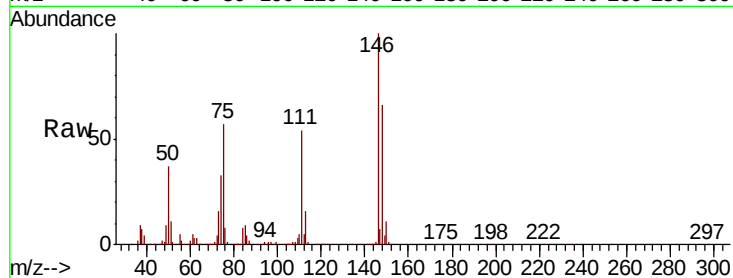
ClientSampleId :
VSTDCCC010EC

Tot Ion:146 Resp: 1321006

Ion	Ratio	Lower	Upper
146	100		
111	52.9	26.1	78.3
148	63.4	31.9	95.9

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#78

Hexachloro-1,3-Butadiene

Concen: 9.360 ppbv

RT: 23.46 min Scan# 6429

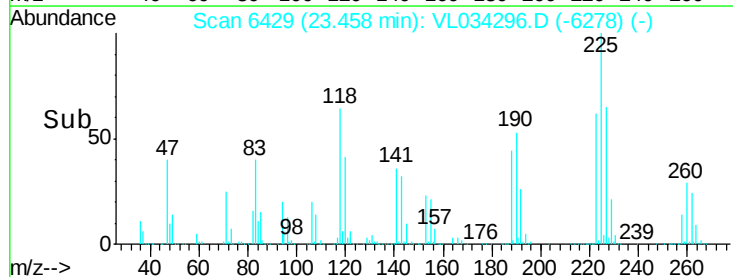
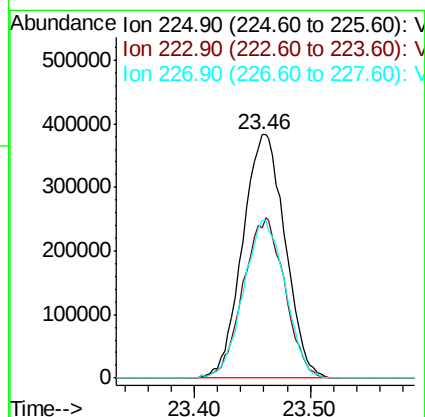
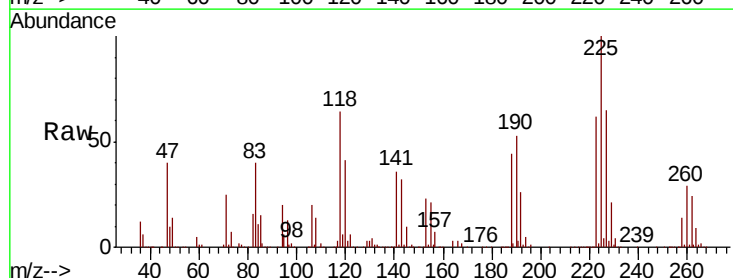
Delta R.T. -0.02 min

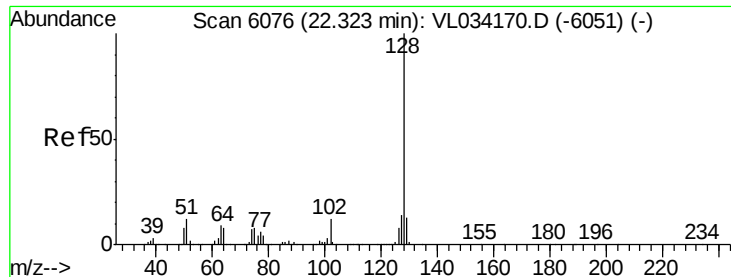
Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Tgt Ion:225 Resp: 976502

Ion	Ratio	Lower	Upper
225	100		
223	64.6	51.7	77.5
227	63.7	52.1	78.1





#79

Naphthalene

Concen: 8.235 ppbv

RT: 22.31 min Scan# 6071

Delta R.T. -0.02 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2102688

Ion Ratio Lower Upper

128 100

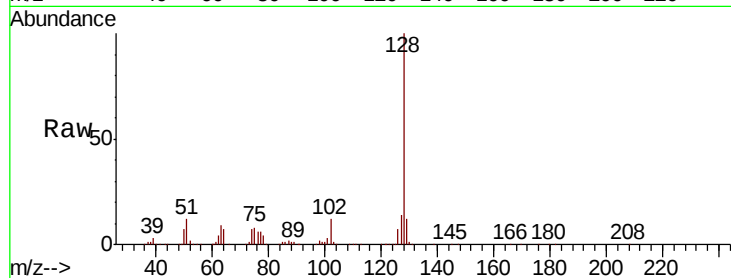
127 13.5 11.1 16.7

129 11.5 10.2 15.4

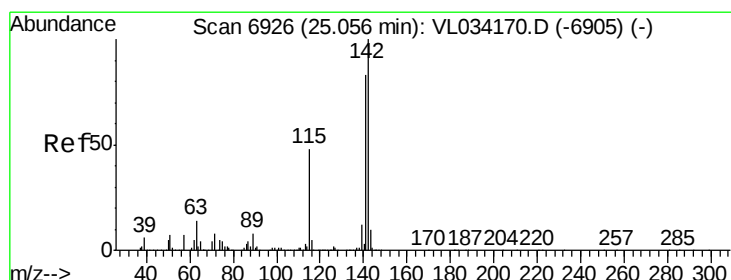
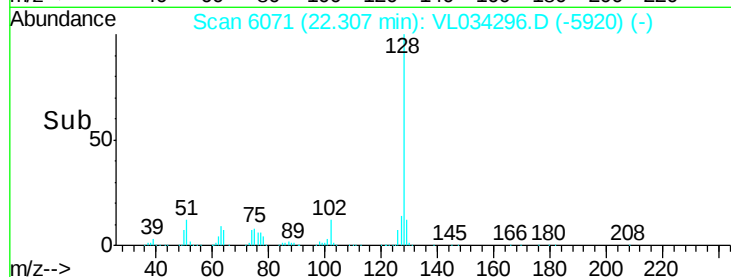
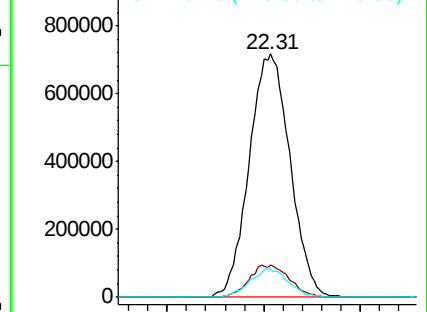
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 6.880 ppbv

RT: 25.04 min Scan# 6922

Delta R.T. -0.01 min

Lab File: VL034296.D

Acq: 15 Oct 2019 00:37

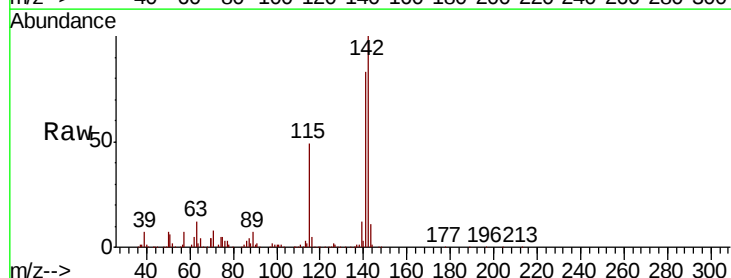
Tgt Ion:142 Resp: 816928

Ion Ratio Lower Upper

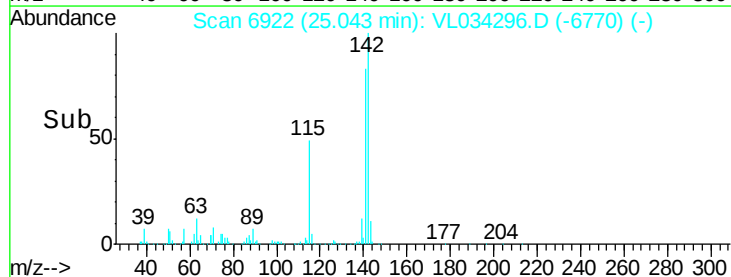
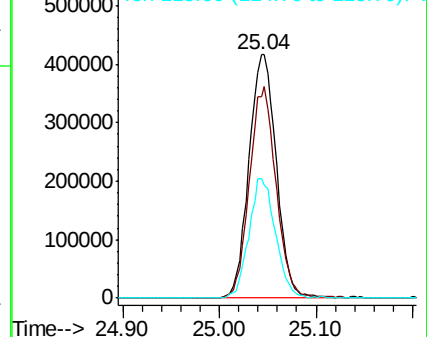
142 100

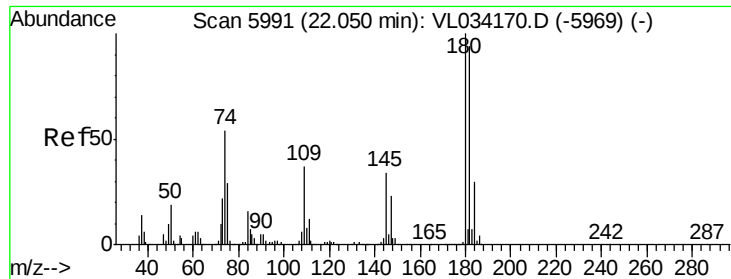
141 85.0 67.6 101.4

115 48.3 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: 8.155 ppbv
 RT: 22.03 min Scan# 5985
 Delta R.T. -0.02 min
 Lab File: VL034296.D
 Acq: 15 Oct 2019 00:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.4	116.2
184	30.3	25.0	37.4

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:43 AM

