

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111220\
 Data File : VL035936.D
 Acq On : 13 Nov 2020 8:33
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 11/16/2020 2:31:38 PM

Quant Time: Nov 13 11:31:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	2060402	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	7191775	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	7035828m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	5481508	10.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	2055952	5.300	ppbv	100
3) Chlorodifluoromethane	2.98	51	1315928	5.333	ppbv	99
4) Chloromethane	3.13	50	661707	5.520	ppbv	99
5) Vinyl Chloride	3.25	62	813816	5.326	ppbv	98
6) Bromomethane	3.47	94	665388	5.415	ppbv	98
7) Chloroethane	3.55	64	306353	5.697	ppbv	97
8) Dichlorotetrafluoroethane	3.18	85	2340584	5.272	ppbv	97
9) Propene	3.00	41	474925	5.259	ppbv	98
10) Heptane	8.12	43	1475844	5.917	ppbv	99
11) Trichlorofluoromethane	3.94	101	2799970	5.748	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2089386	5.761	ppbv	99
13) Ethanol	3.60	45	92715	4.732	ppbv	93
14) Bromoethene	3.73	108	860653	5.157	ppbv	99
15) Acetone	3.84	43	1217882	5.529	ppbv	99
16) 1,3-Butadiene	3.32	39	529412	5.582	ppbv	96
17) tert-Butyl alcohol	4.29	59	1355997	4.645	ppbv	99
18) 1,1-Dichloroethene	4.28	96	925668	5.559	ppbv	94
19) Isopropyl Alcohol	3.96	45	638441	4.716	ppbv	# 95
20) Methylene Chloride	4.34	84	806165	5.199	ppbv	99
21) Allyl Chloride	4.41	41	688517	5.780	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	958595	5.679	ppbv	99
23) Vinyl Acetate	5.07	43	1618014	5.240	ppbv	98
24) 1,1-Dichloroethane	5.01	63	1623954	5.521	ppbv	100
25) Ethyl Acetate	5.68	43	2428498	5.596	ppbv	99
26) Hexane	5.68	57	1282731	5.360	ppbv	97
27) Carbon Disulfide	4.55	76	2032713	5.669	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2148769	5.000	ppbv	100
29) Chloroform	5.75	83	2545111	5.411	ppbv	98
30) Cyclohexane	7.13	84	1352539	5.189	ppbv	94
31) cis-1,2-Dichloroethene	5.55	61	1327641	5.393	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	2461547	5.015	ppbv	99
34) 2-Butanone	5.24	43	1585915	6.795	ppbv	96
35) Carbon Tetrachloride	7.02	117	2464342	6.413	ppbv	100
36) Benzene	6.89	78	3160067	5.910	ppbv	99
37) 1,2-Dichloroethane	6.31	62	1606048	6.631	ppbv	98
38) Trichloroethene	7.84	130	1477974	5.659	ppbv	98
39) 1,2-Dichloropropane	7.62	63	1125976	6.255	ppbv	99
40) 1,4-Dioxane	7.83	88	476185	5.582	ppbv	74
41) Tetrahydrofuran	6.05	42	897230	6.766	ppbv	96
42) Bromodichloromethane	7.80	83	2611186	6.389	ppbv	98
43) Methyl Methacrylate	8.02	69	1320335	6.474	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4470736	6.319	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	1398531	6.469	ppbv	98
46) cis-1,3-Dichloropropene	8.71	75	1727665	6.310	ppbv	96
47) 1,1,2-Trichloroethane	9.48	97	1486513	6.061	ppbv	99
48) Dibromochloromethane	10.31	129	2431791	6.490	ppbv	99
49) Bromoform	13.05	173	2090208	6.611	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2515247	7.047	ppbv	98
51) 2-Hexanone	10.14	43	2063556	7.198	ppbv #	97
52) Tetrachloroethene	11.23	164	1352328	5.339	ppbv	99
53) Toluene	9.81	91	3864869	5.991	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2258203	6.054	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.13	131	1919699	6.079	ppbv #	31
57) Chlorobenzene	12.16	112	3226332	5.767	ppbv	99
58) Ethyl Benzene	12.72	91	5124616	5.980	ppbv	100
59) m/p-Xylene	13.00	91	8857484m	12.217	ppbv	
60) o-Xylene	13.70	91	4365568	6.190	ppbv	98
61) Styrene	13.54	104	3223927	6.239	ppbv	99
62) Isopropylbenzene	14.68	105	6469432	5.836	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	3255135	5.957	ppbv	99
64) n-propylbenzene	15.57	120	1924606	6.007	ppbv	95
65) tert-Butylbenzene	16.75	119	5982414	5.929	ppbv	97
66) Benzyl Chloride	17.00	91	2204789	6.611	ppbv	99
67) sec-Butylbenzene	17.30	105	8128512	5.978	ppbv	99
69) p-Isopropyltoluene	17.66	119	6836490	6.093	ppbv	98
70) n-Butylbenzene	18.56	91	7055169	6.529	ppbv	99
71) 2-Chlorotoluene	15.46	91	5011543	6.181	ppbv	97
72) 4-Ethyltoluene	15.85	105	5252160	6.140	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4916463	6.281	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	5207293	6.208	ppbv	99
75) 1,3-Dichlorobenzene	17.01	146	3251353	6.088	ppbv	98
76) 1,4-Dichlorobenzene	17.15	146	3165287	6.144	ppbv	98
77) 1,2-Dichlorobenzene	17.83	146	3180867	6.110	ppbv	98
78) Hexachloro-1,3-Butadiene	23.39	225	1864875	7.677	ppbv	99
79) Naphthalene	22.21	128	4744770	8.115	ppbv	100
80) Naphthalene, 2-methyl-	24.98	142	1202474	12.620	ppbv	99
81) 1,2,4-Trichlorobenzene	21.94	180	2388378	7.311	ppbv	99

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

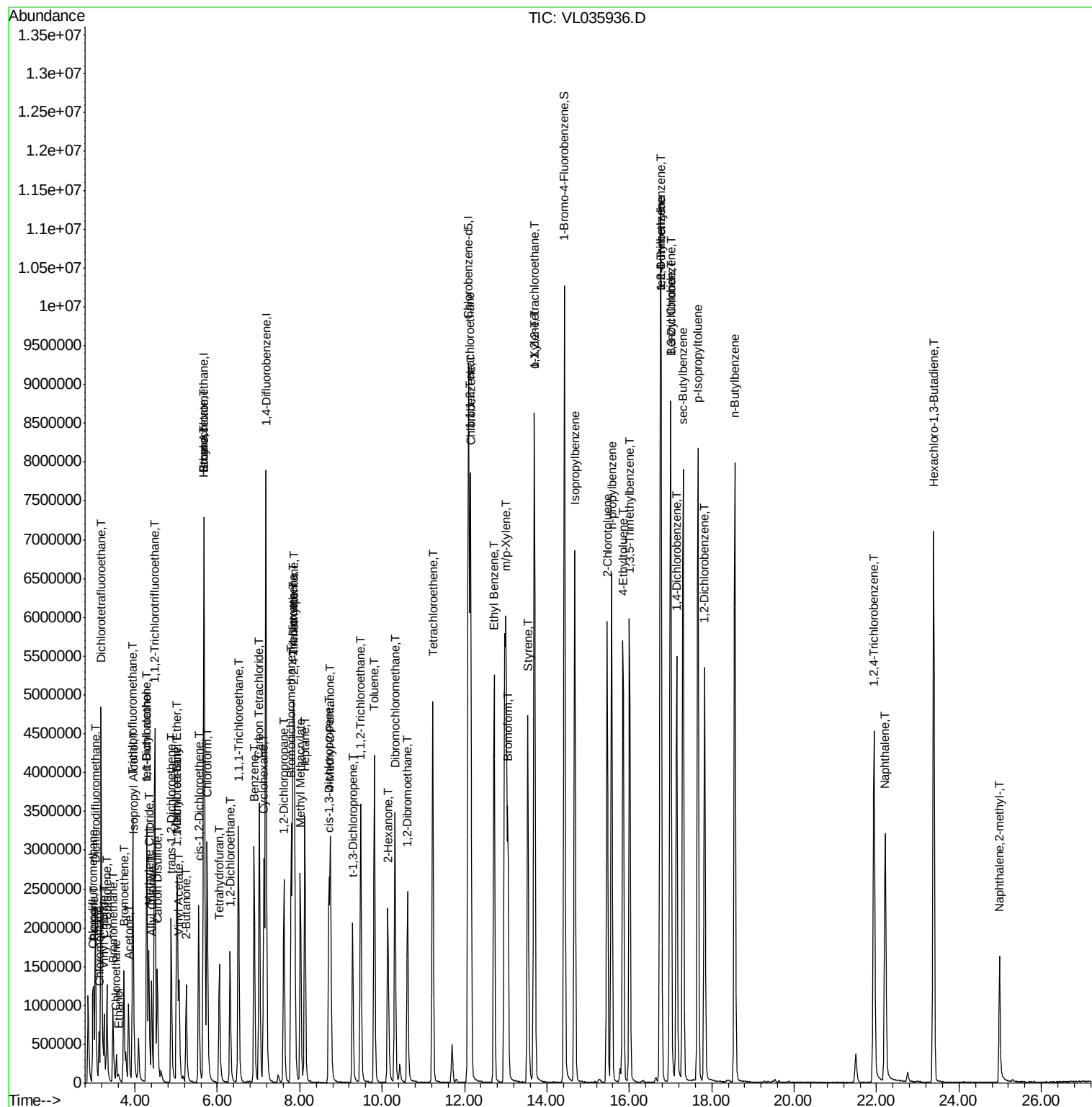
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111220\
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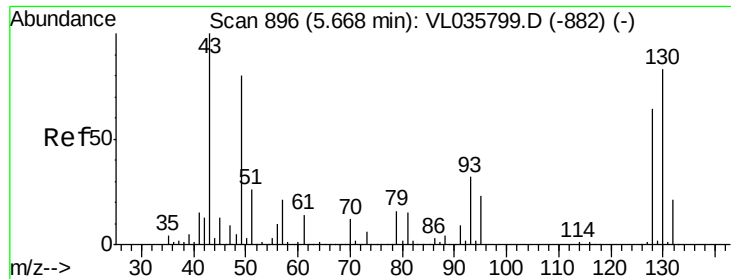
Instrument :
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ClientSampleId :
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QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 2060402

Ion Ratio Lower Upper

49 100

128 80.4 41.5 124.6

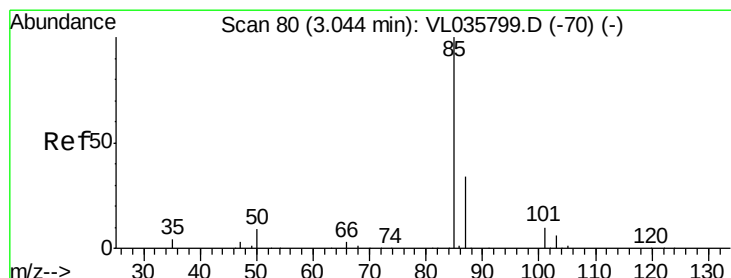
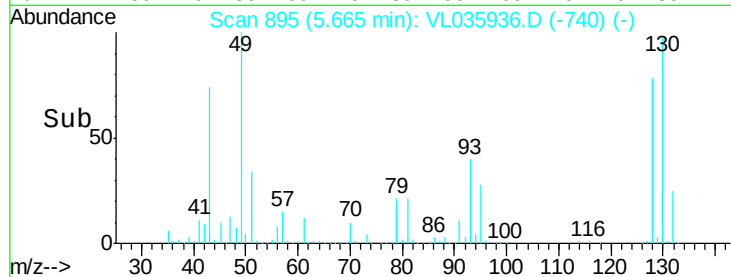
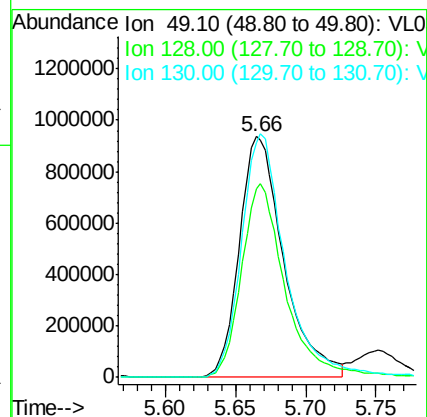
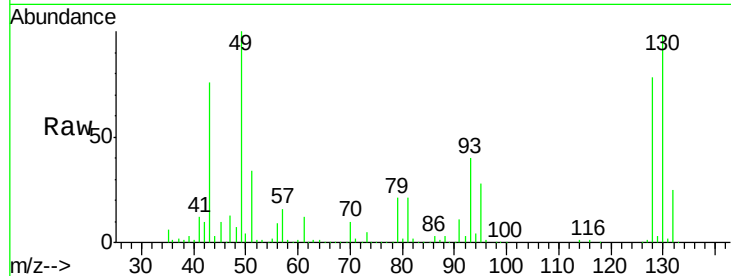
130 102.2 53.7 161.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 5.300 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL035936.D

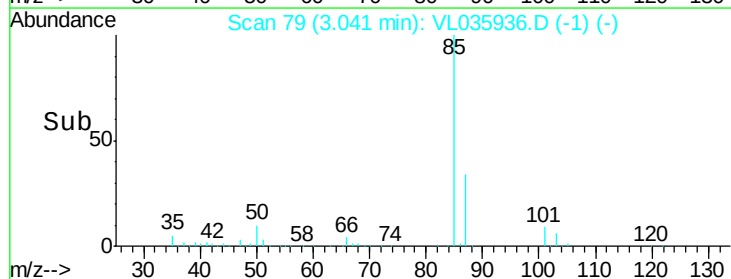
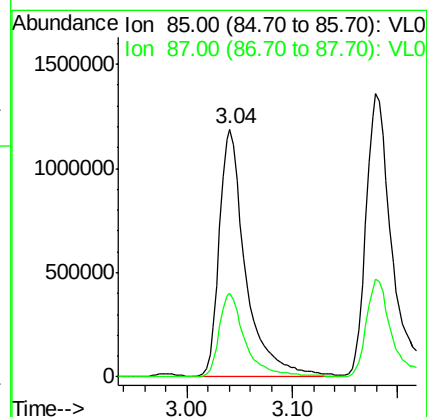
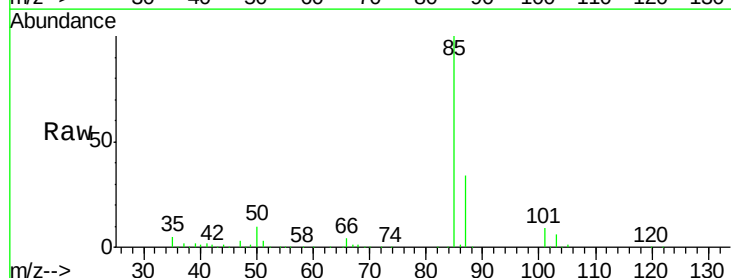
Acq: 13 Nov 2020 8:33

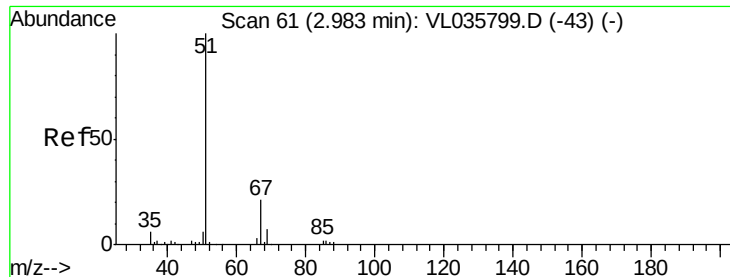
Tgt Ion: 85 Resp: 2055952

Ion Ratio Lower Upper

85 100

87 33.8 27.1 40.7





#3

Chlorodifluoromethane

Concen: 5.333 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1315928

Ion Ratio Lower Upper

51 100

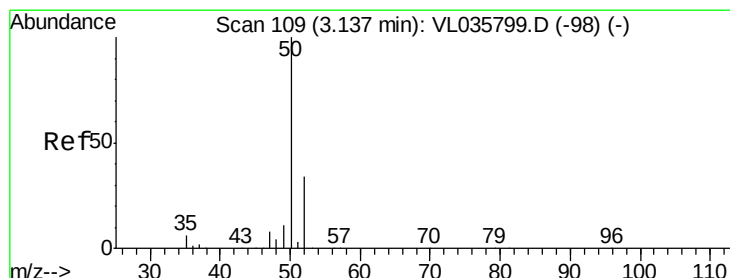
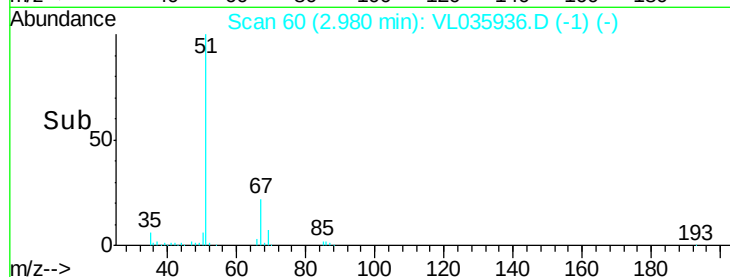
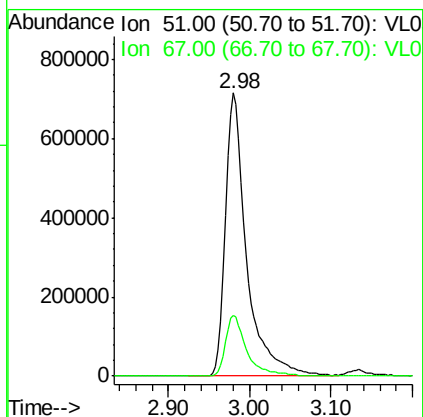
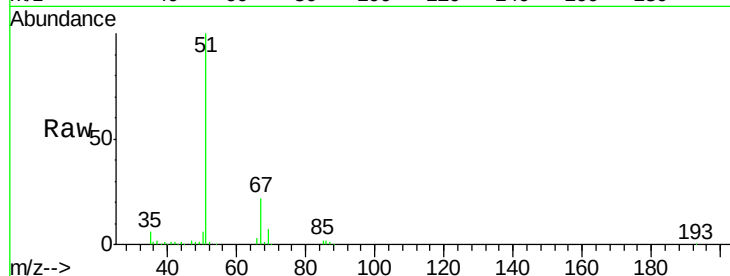
67 21.6 17.0 25.4

Manual Integrations

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#4

Chloromethane

Concen: 5.520 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL035936.D

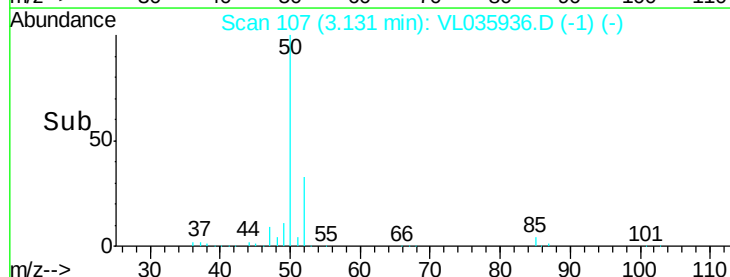
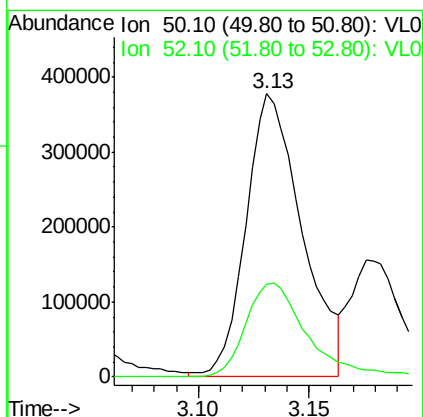
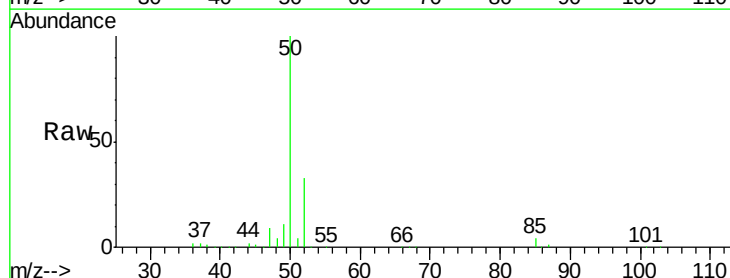
Acq: 13 Nov 2020 8:33

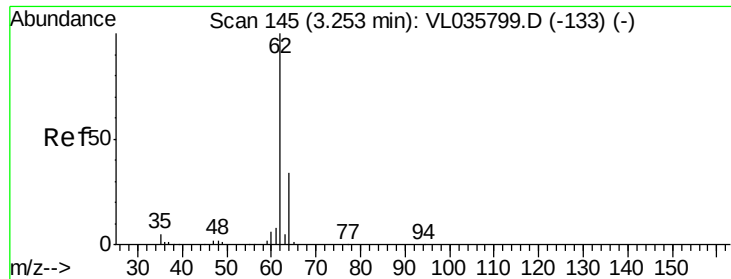
Tgt Ion: 50 Resp: 661707

Ion Ratio Lower Upper

50 100

52 33.4 27.1 40.7





#5

Vinyl Chloride

Concen: 5.326 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010EC

Tot Ion: 62 Resp: 813816

Ion Ratio Lower Upper

62 100

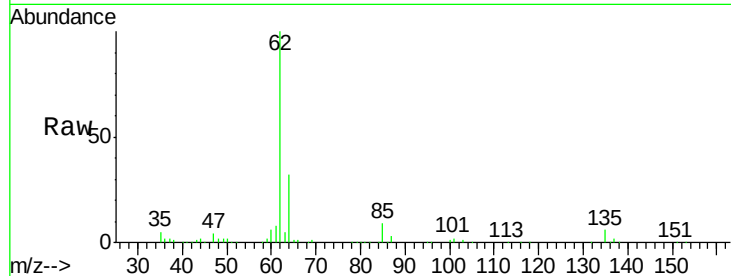
64 32.5 26.9 40.3

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.25

400000

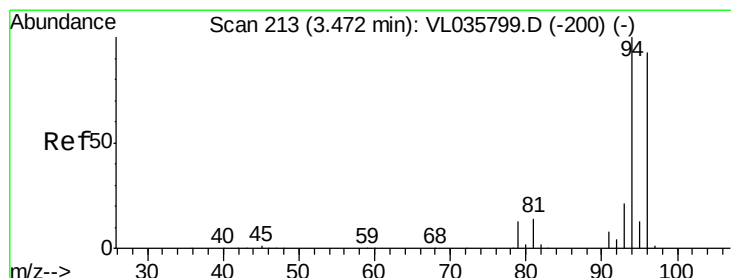
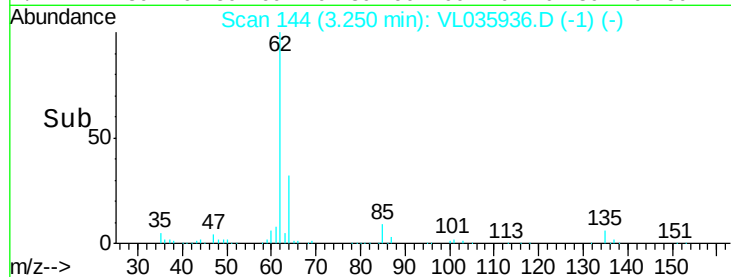
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 5.415 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL035936.D

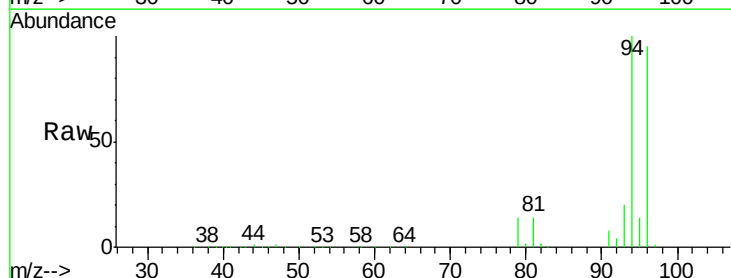
Acq: 13 Nov 2020 8:33

Tgt Ion: 94 Resp: 665388

Ion Ratio Lower Upper

94 100

96 94.9 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.47

400000

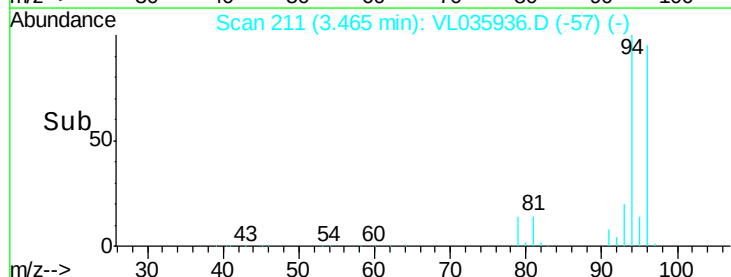
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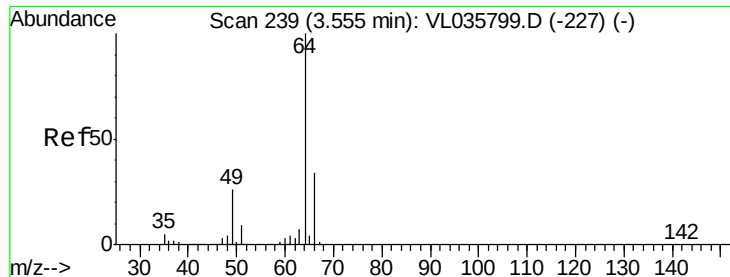
200000

100000

0

Time-->





#7

Chloroethane

Concen: 5.697 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 306353

Ion Ratio Lower Upper

64 100

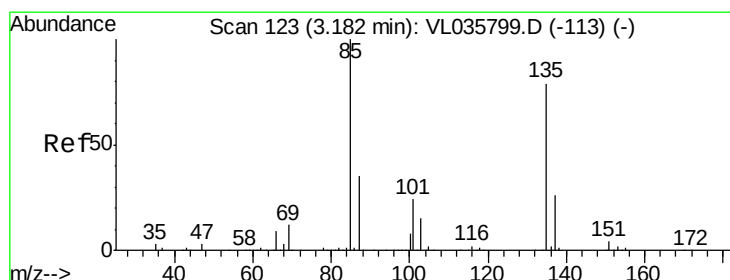
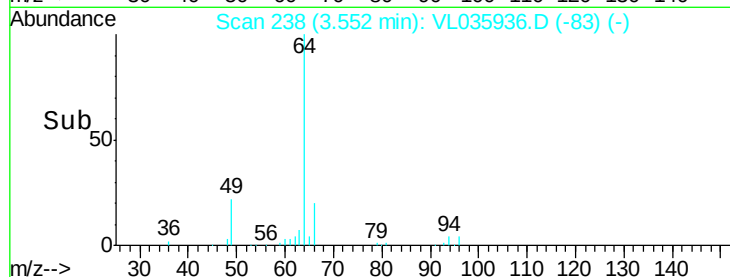
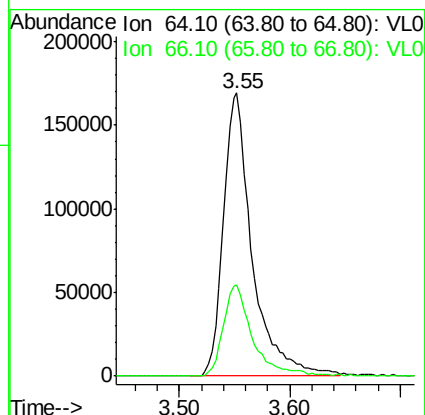
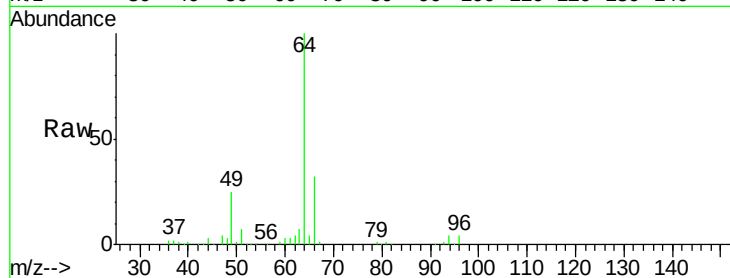
66 32.2 27.0 40.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 5.272 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.00 min

Lab File: VL035936.D

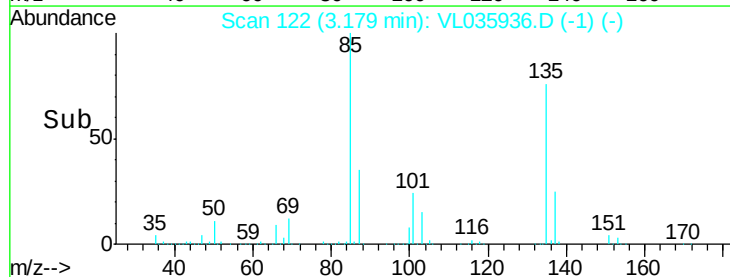
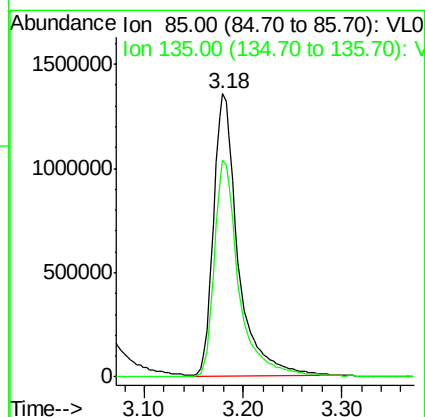
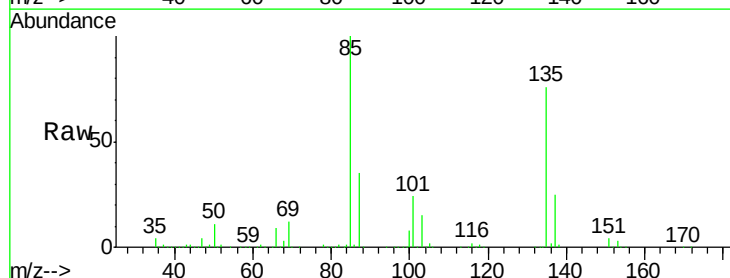
Acq: 13 Nov 2020 8:33

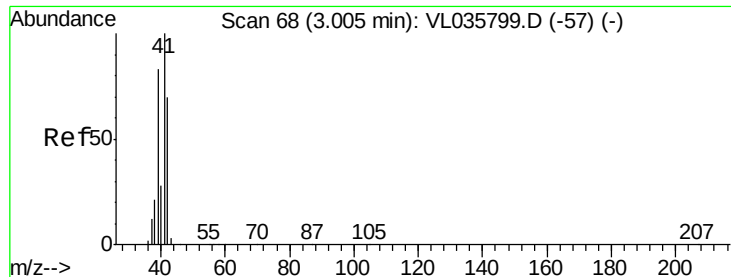
Tgt Ion: 85 Resp: 2340584

Ion Ratio Lower Upper

85 100

135 78.2 64.6 96.8





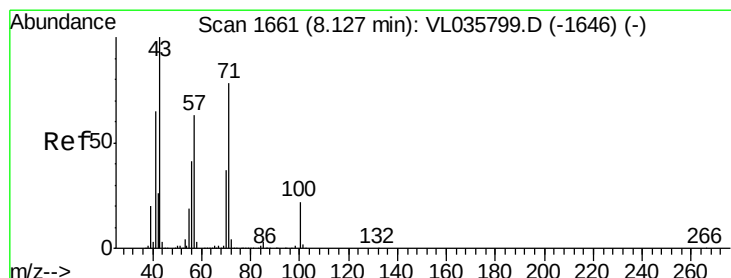
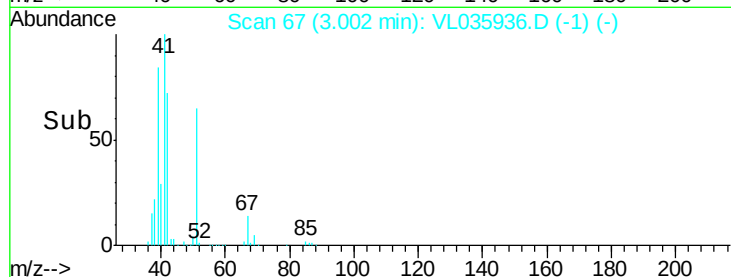
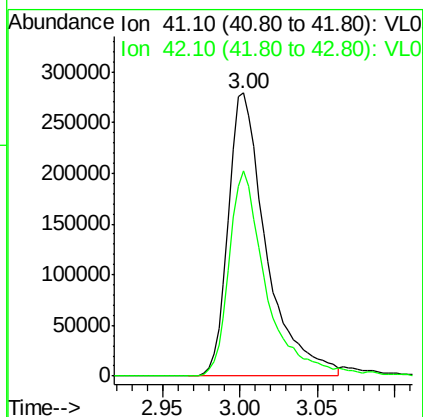
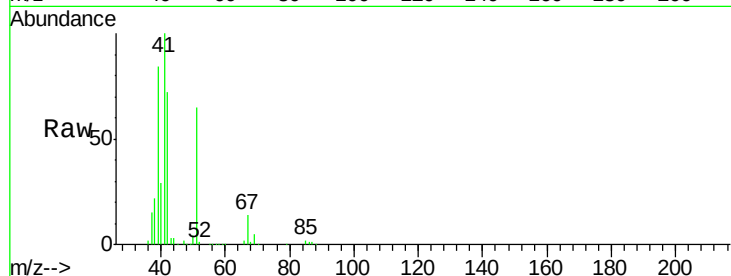
#9
 Propene
 Concen: 5.259 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 474925
 Ion Ratio Lower Upper
 41 100
 42 72.2 56.2 84.4

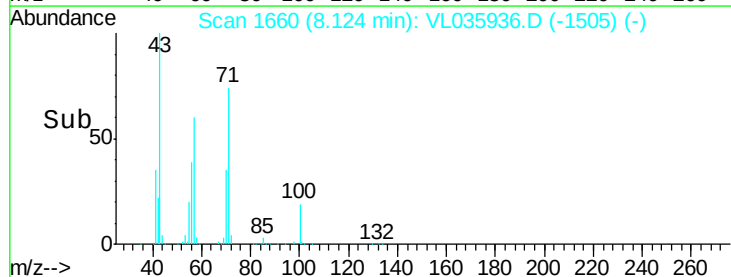
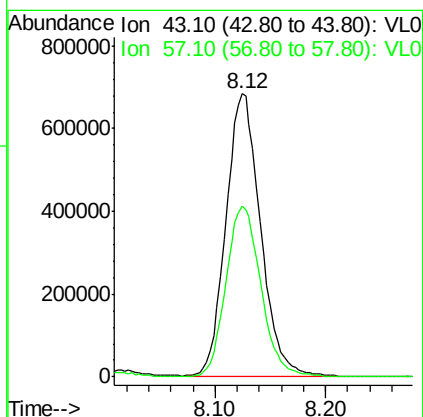
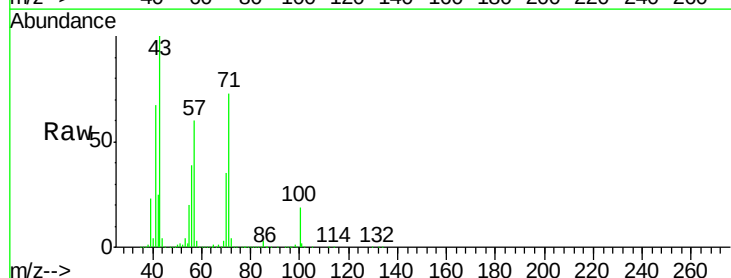
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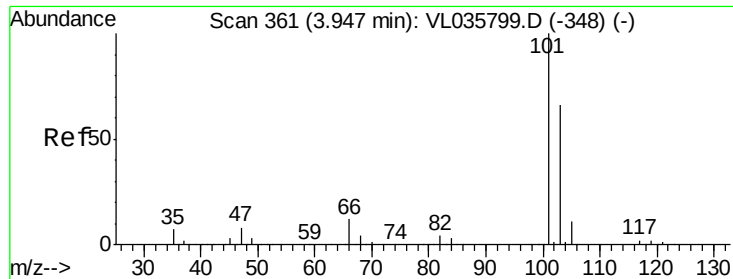
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#10
 Heptane
 Concen: 5.917 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion: 43 Resp: 1475844
 Ion Ratio Lower Upper
 43 100
 57 61.8 50.0 75.0





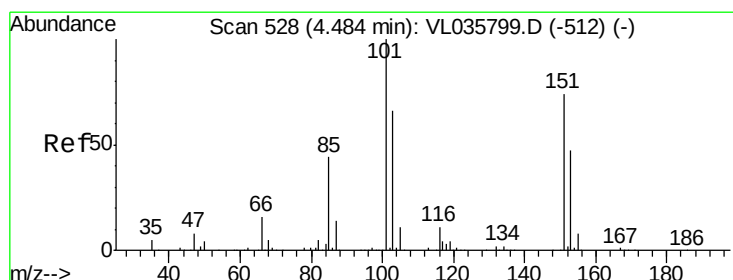
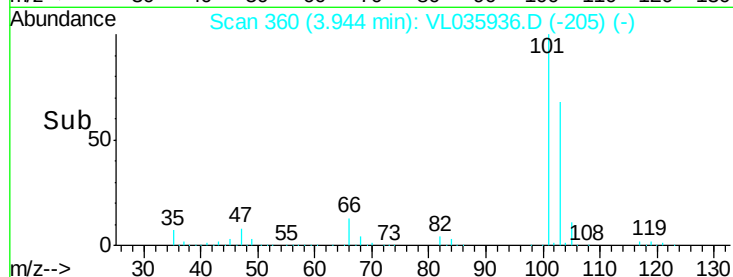
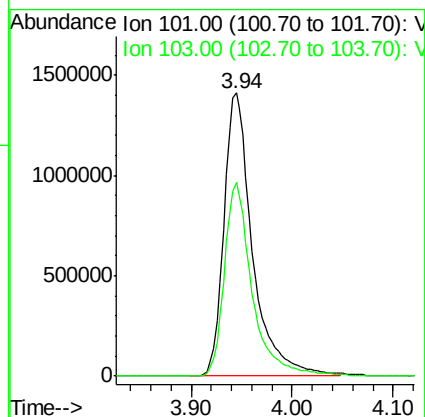
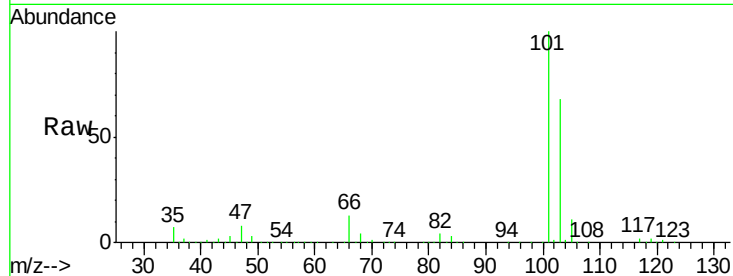
#11
 Trichlorofluoromethane
 Concen: 5.748 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2799970
 Ion Ratio Lower Upper
 101 100
 103 68.3 53.0 79.4

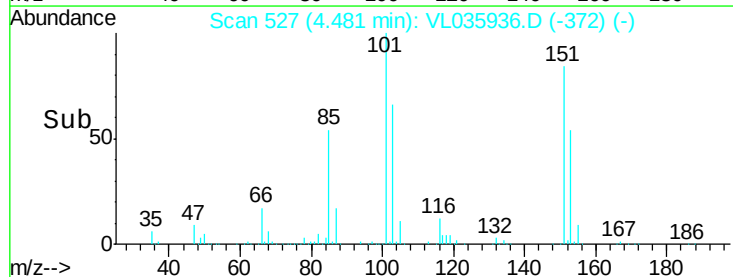
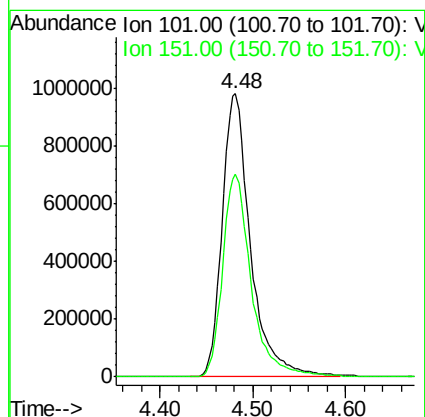
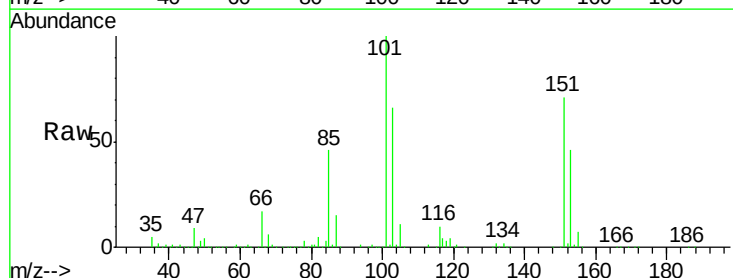
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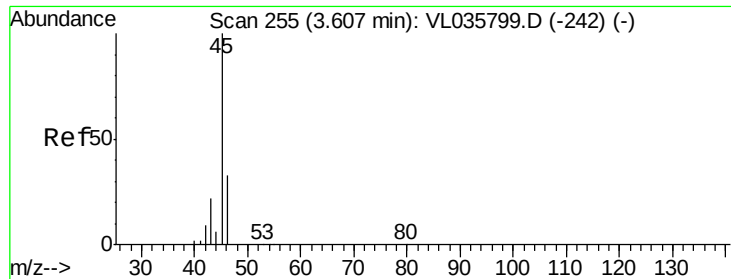
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 5.761 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion:101 Resp: 2089386
 Ion Ratio Lower Upper
 101 100
 151 72.5 58.9 88.3





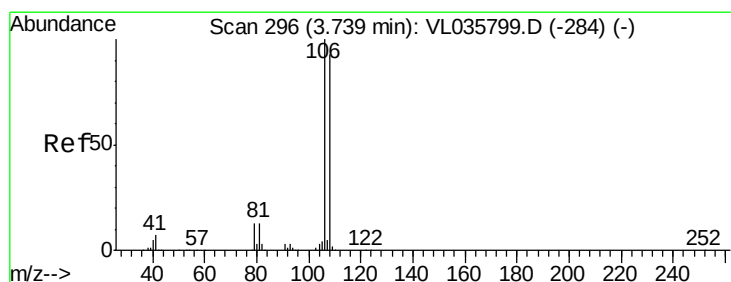
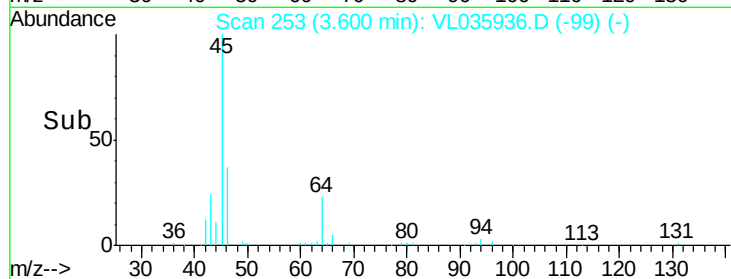
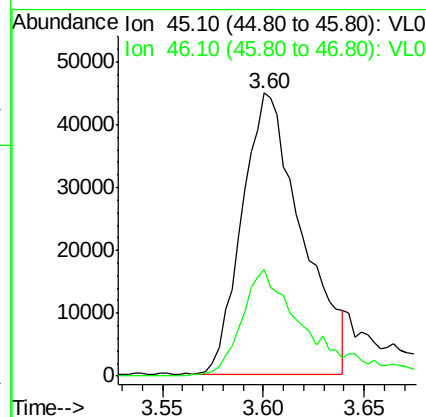
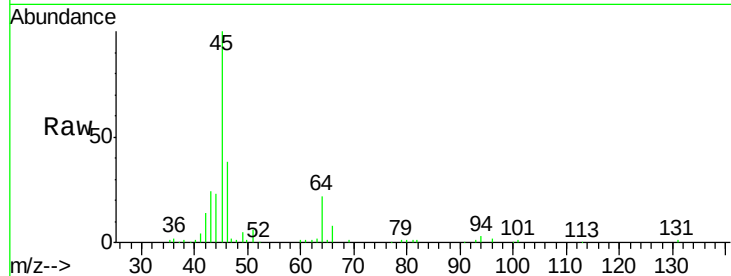
#13
Ethanol
Concen: 4.732 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	100	44.5	Resp	92715	Lower	Upper
45	100								
46		44.5				16.1	64.5		

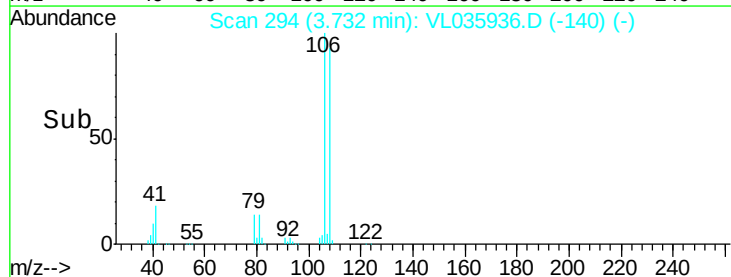
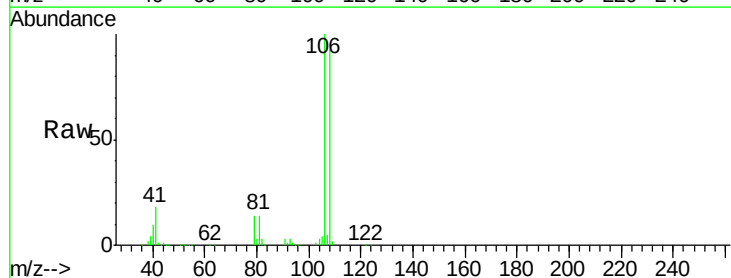
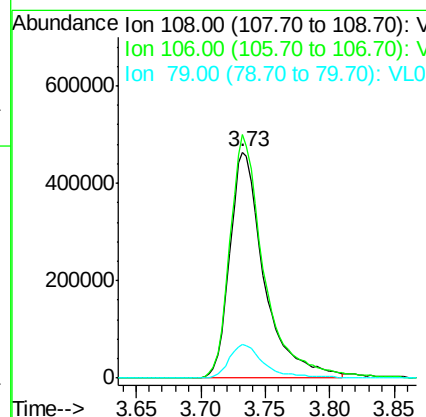
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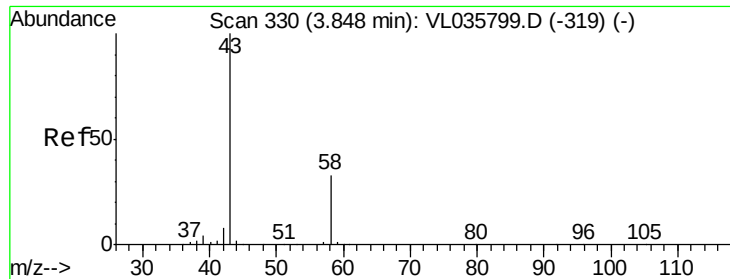
MMDadoda
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#14
Bromoethene
Concen: 5.157 ppbv
RT: 3.73 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion	108	106	79	Ratio	100	107.9	15.7	Resp	860653	Lower	Upper
108	100										
106		107.9				85.3	127.9				
79			15.7			11.6	17.4				





#15

Acetone

Concen: 5.529 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1217882

Ion Ratio Lower Upper

43 100

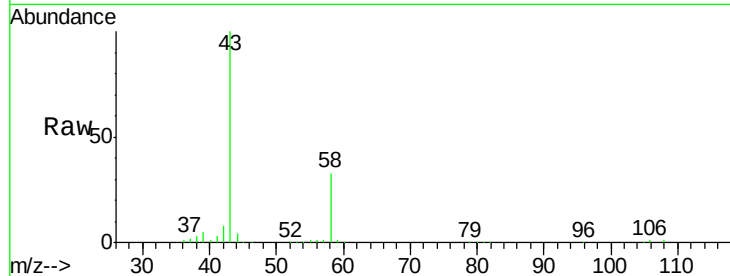
58 33.7 27.5 41.3

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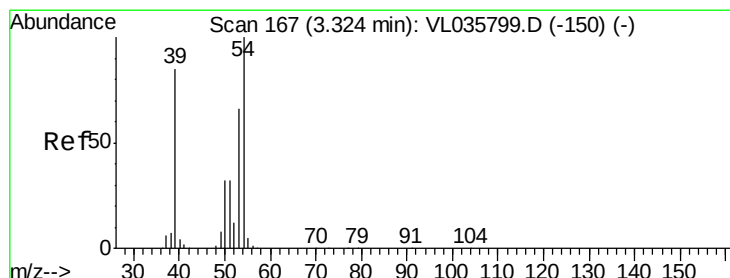
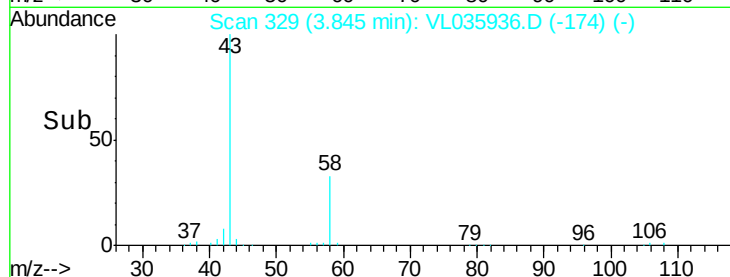
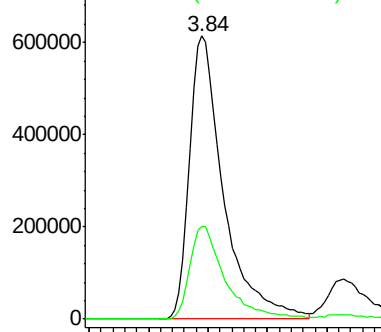
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 5.582 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL035936.D

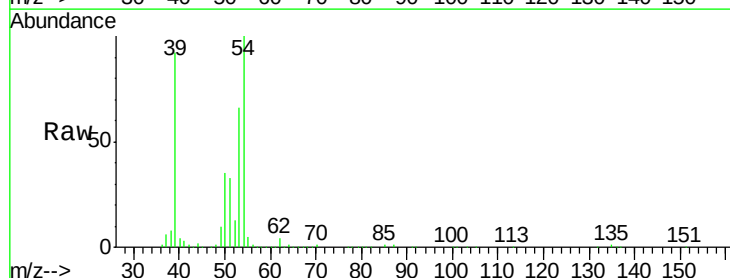
Acq: 13 Nov 2020 8:33

Tgt Ion: 39 Resp: 529412

Ion Ratio Lower Upper

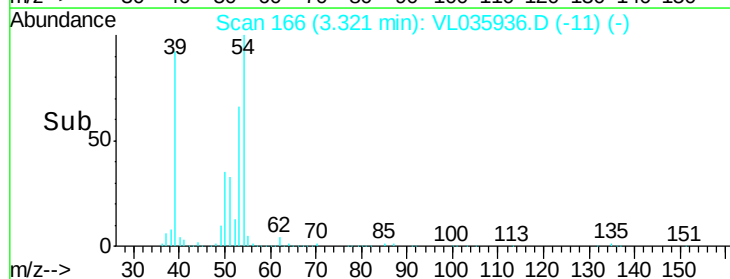
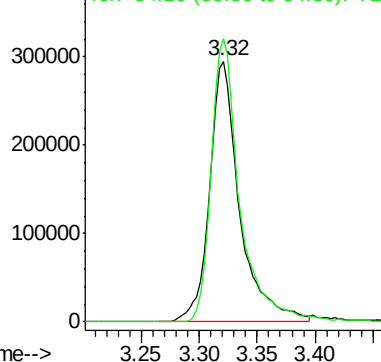
39 100

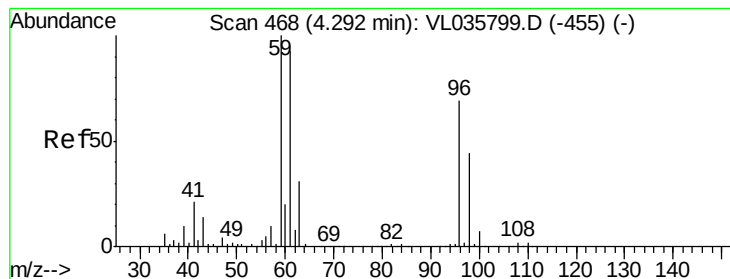
54 104.5 87.1 130.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 4.645 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tot Ion: 59 Resp: 1355997

Ion Ratio Lower Upper

59 100

57 10.6 8.2 12.4

Instrument :

MSVOA_L

ClientSampleId :

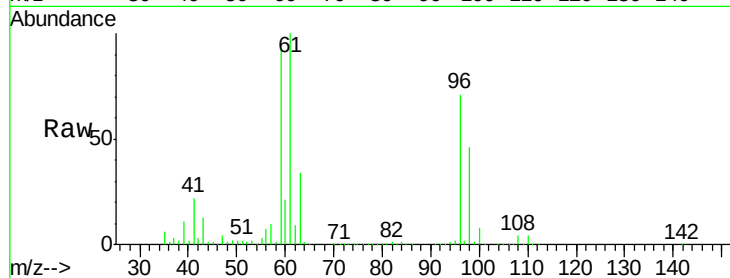
VSTDCCC010EC

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

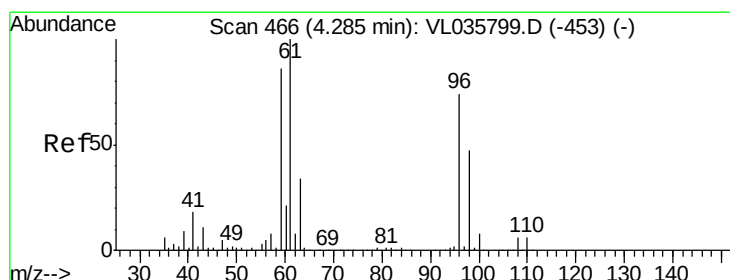
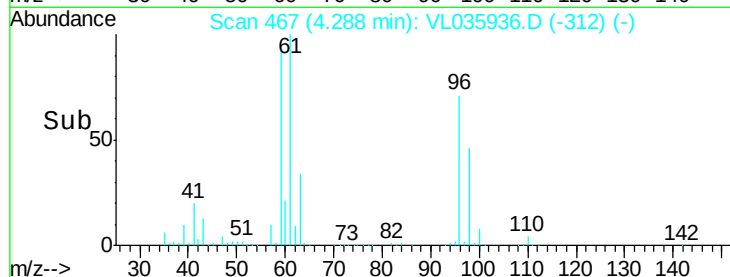
600000

400000

200000

0

Time-->



#18

1,1-Dichloroethene

Concen: 5.559 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

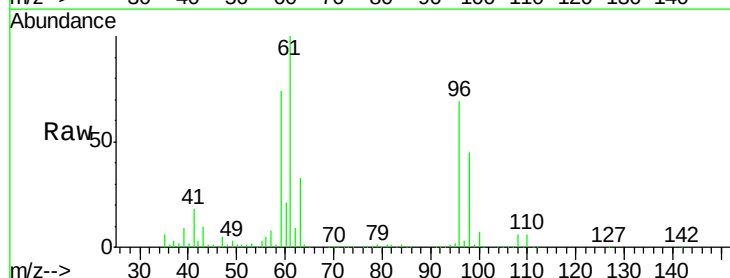
Tgt Ion: 96 Resp: 925668

Ion Ratio Lower Upper

96 100

61 144.5 108.5 162.7

98 65.2 50.7 76.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.28

800000

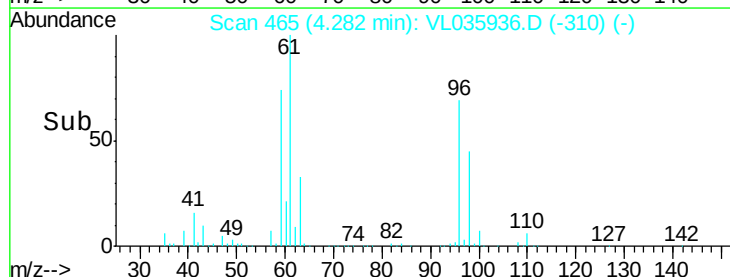
600000

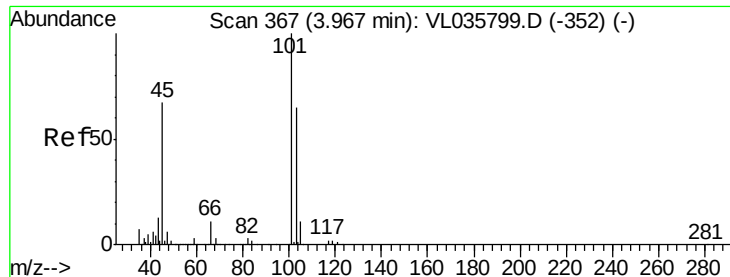
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 4.716 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 638441

Ion Ratio Lower Upper

45 100

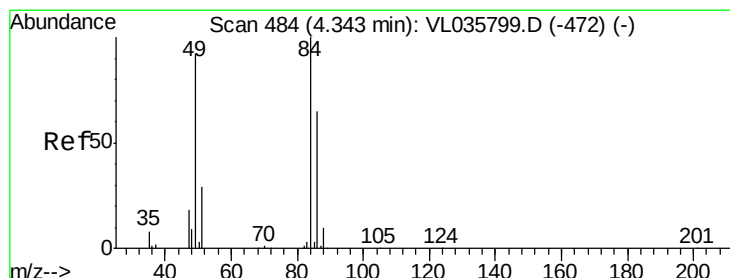
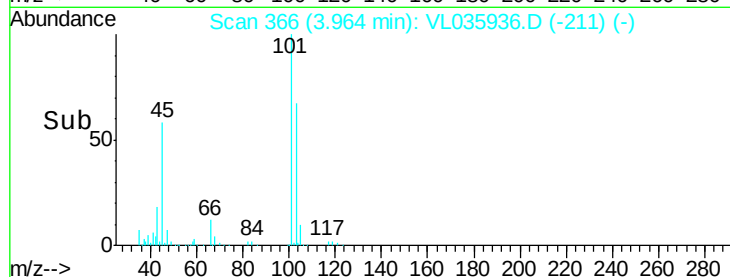
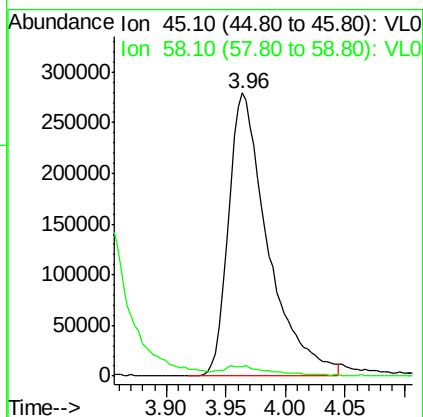
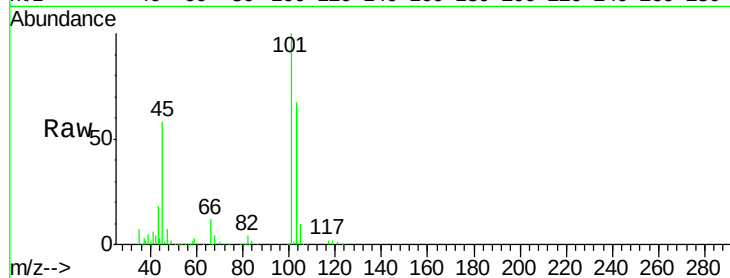
58 4.8 2.6 3.8#

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#20

Methylene Chloride

Concen: 5.199 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion: 84 Resp: 806165

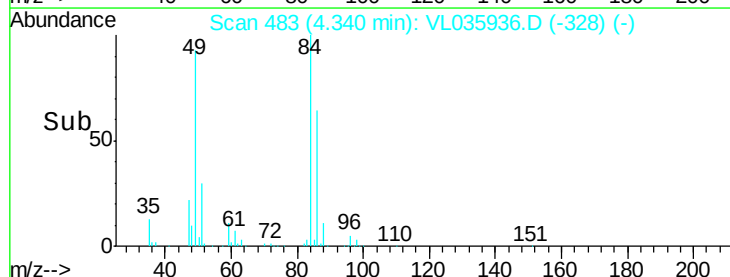
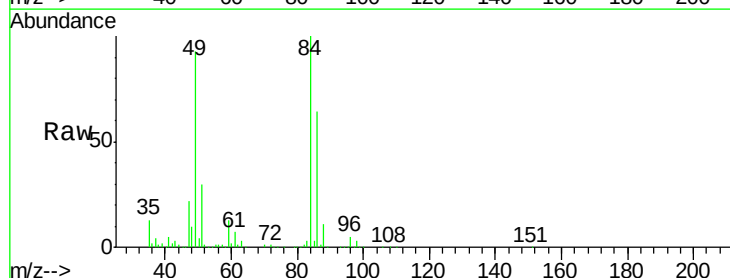
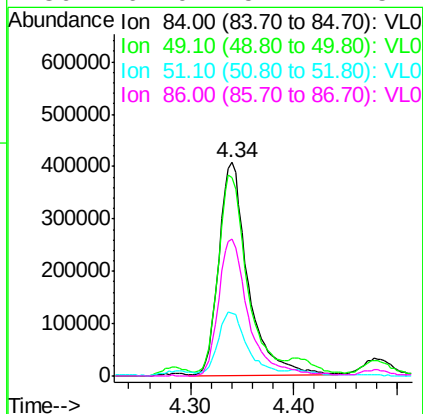
Ion Ratio Lower Upper

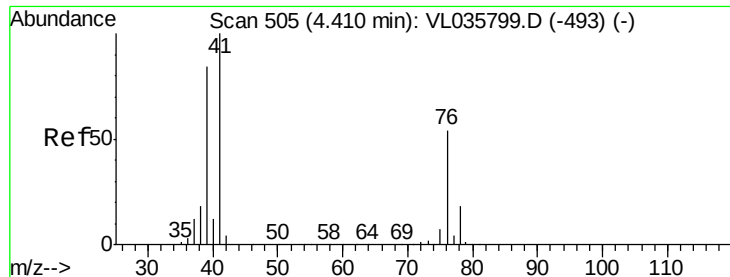
84 100

49 91.9 73.8 110.8

51 28.9 23.0 34.4

86 64.0 52.1 78.1





#21

Allvl Chloride

Concen: 5.780 ppbv

RT: 4.41 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

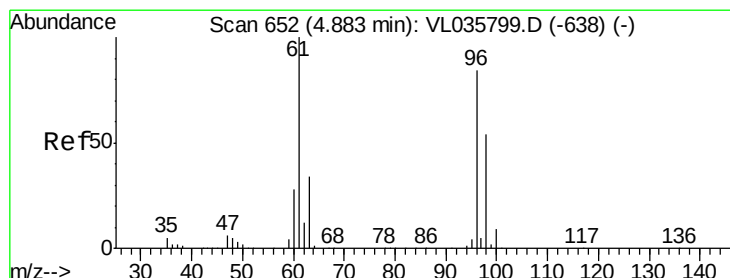
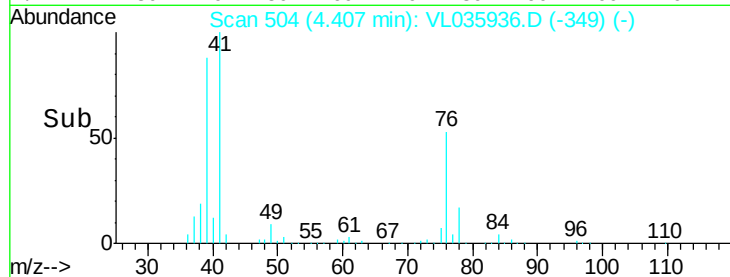
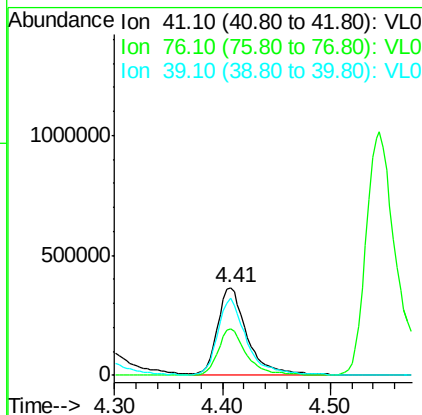
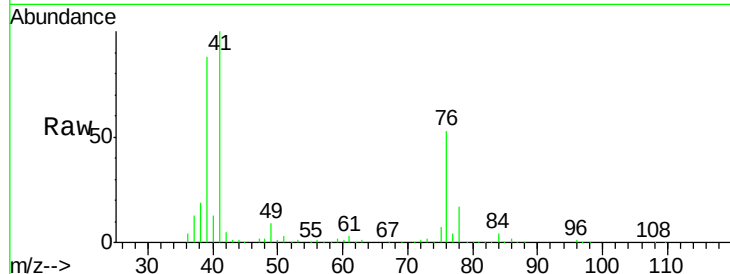
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	688517
Ion Ratio	Lower	Upper	
41	100		
76	52.0	42.6	63.8
39	85.5	67.0	100.4

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#22

trans-1,2-Dichloroethene

Concen: 5.679 ppbv

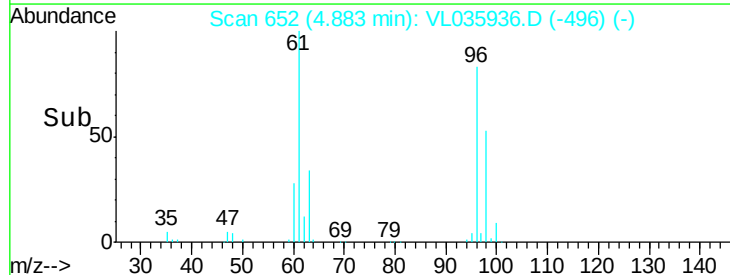
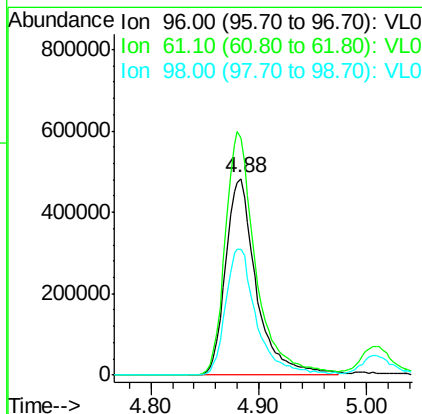
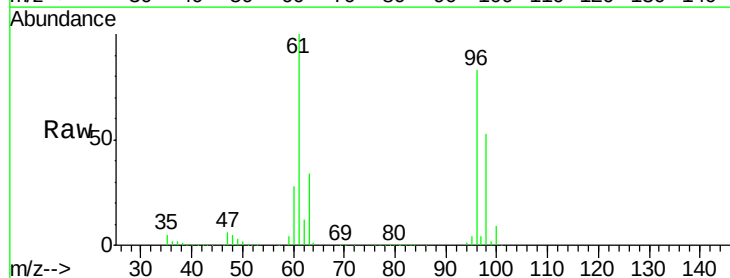
RT: 4.88 min Scan# 652

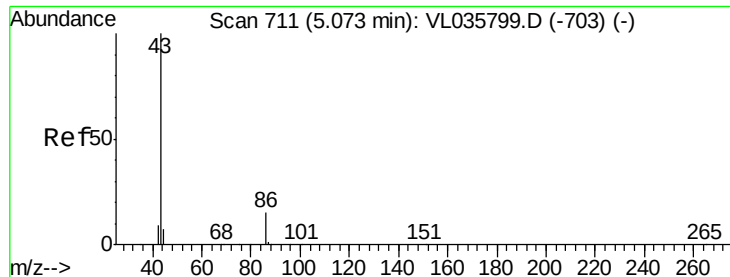
Delta R.T. 0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion:	96	Resp:	958595
Ion Ratio	Lower	Upper	
96	100		
61	121.2	95.4	143.0
98	64.4	51.8	77.6





#23

Vinyl Acetate

Concen: 5.240 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1618014

Ion Ratio Lower Upper

43 100

86 11.2 9.8 14.6

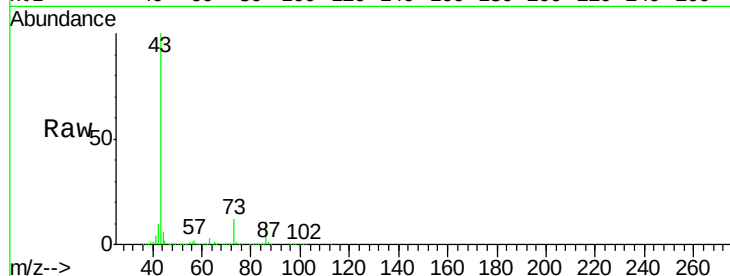
42 10.0 8.1 12.1

44 5.7 4.2 6.4

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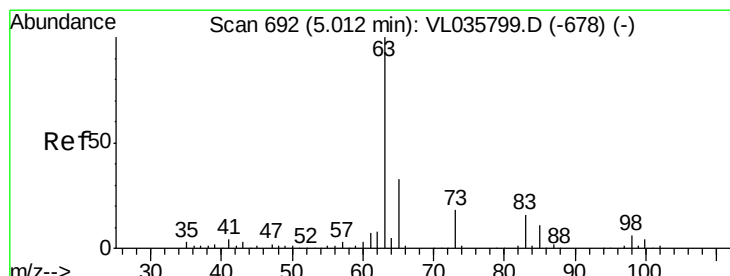
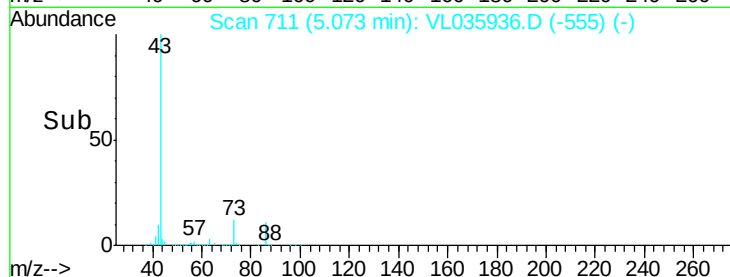
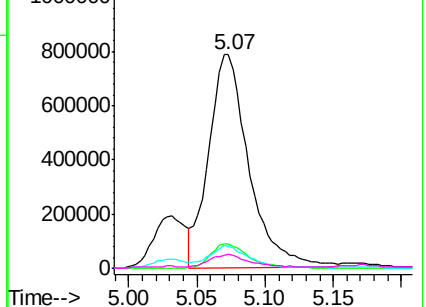


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 5.521 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

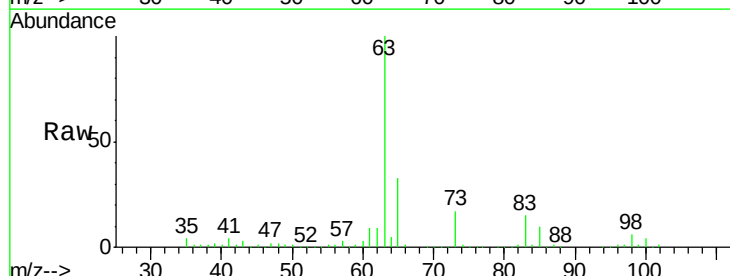
Tgt Ion: 63 Resp: 1623954

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.2

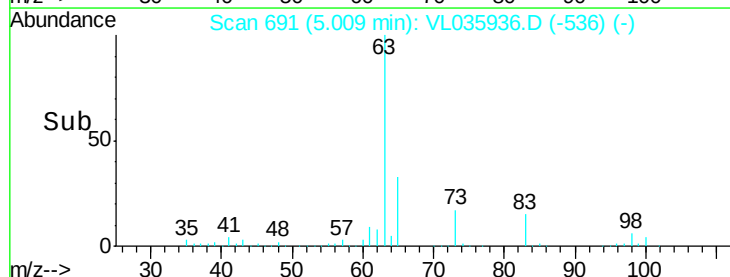
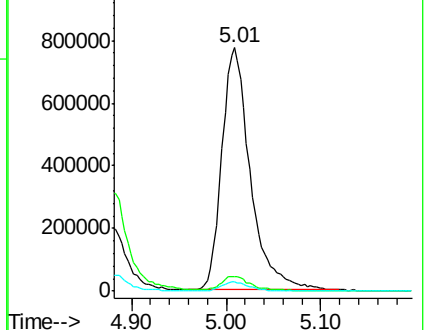
100 3.6 1.8 5.4

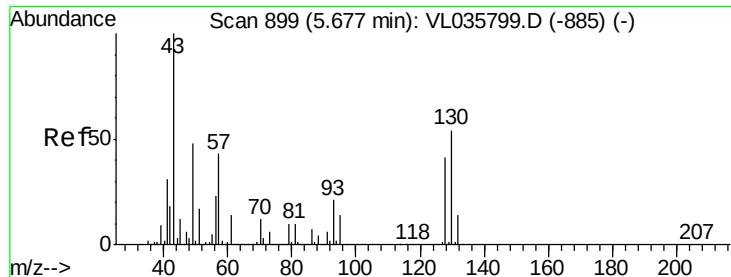


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





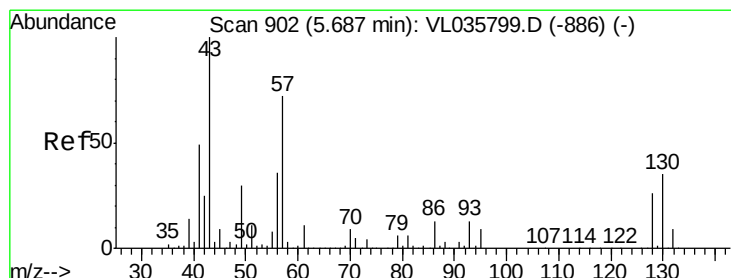
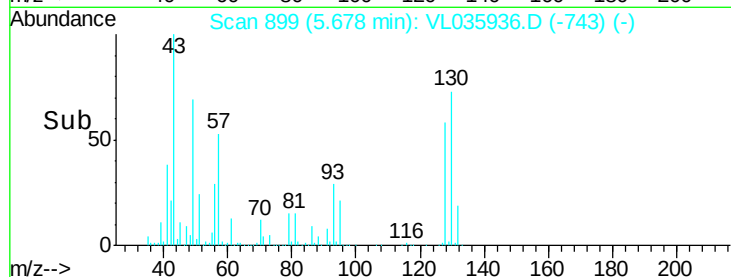
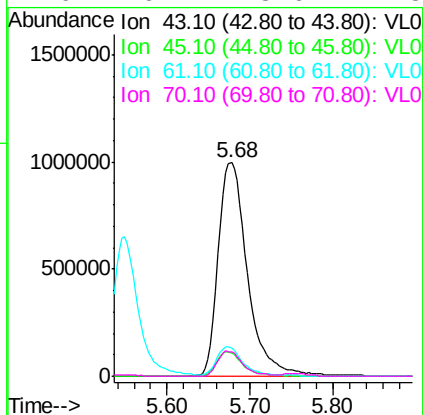
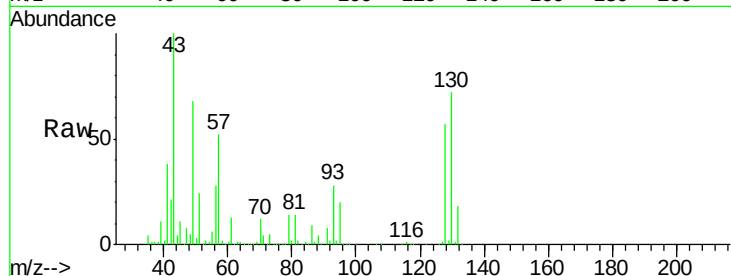
#25
Ethyl Acetate
Concen: 5.596 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 2428498
Ion Ratio Lower Upper
43 100
45 10.6 8.5 12.7
61 13.1 10.7 16.1
70 10.4 8.6 12.8

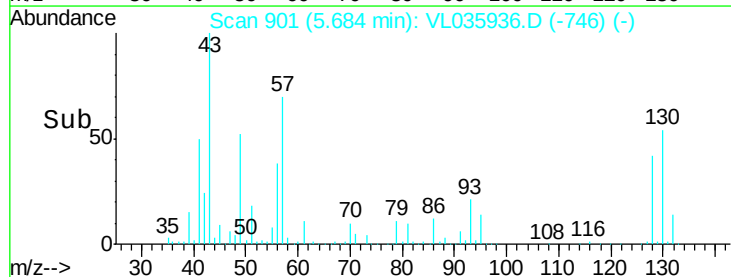
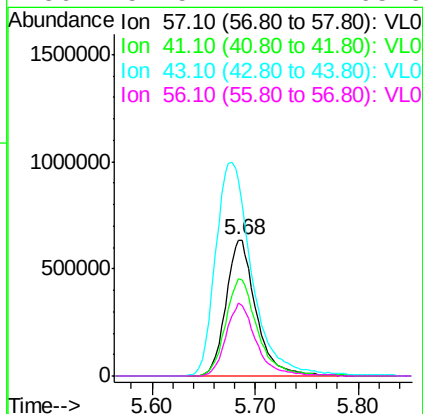
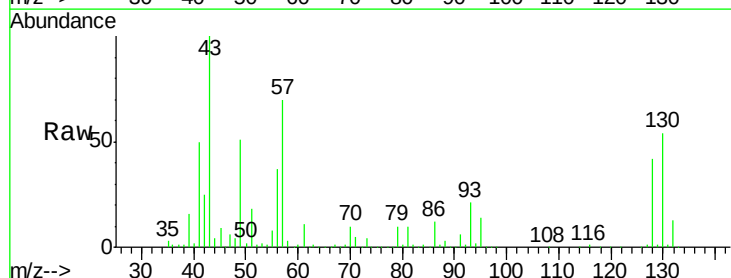
Manual Integrations
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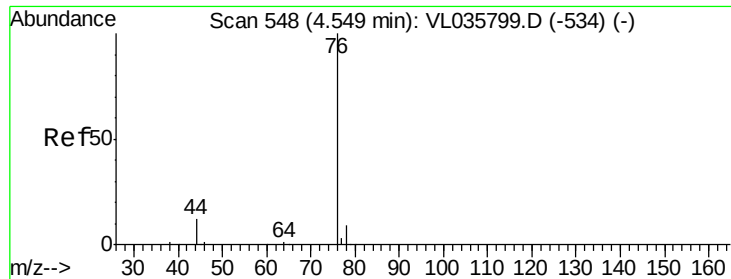
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#26
Hexane
Concen: 5.360 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion: 57 Resp: 1282731
Ion Ratio Lower Upper
57 100
41 76.9 58.9 88.3
43 191.0 150.2 225.2
56 54.5 42.4 63.6





#27

Carbon Disulfide

Concen: 5.669 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 2032713

Ion Ratio Lower Upper

76 100

44 11.9 9.9 14.9

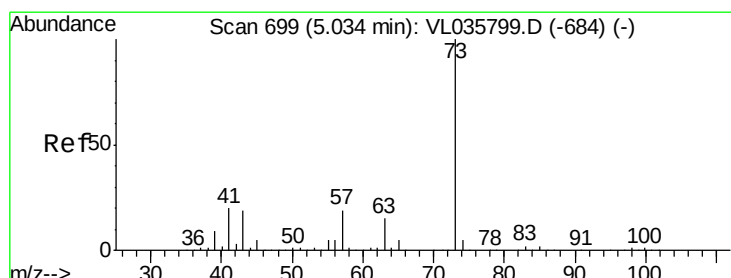
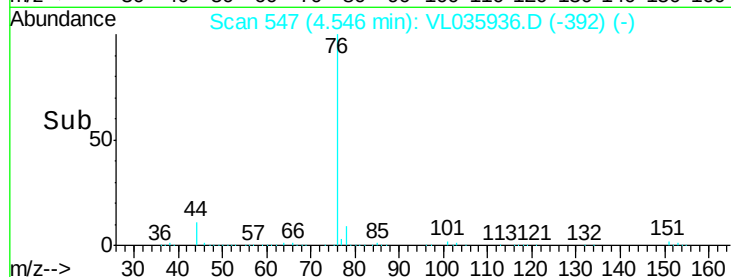
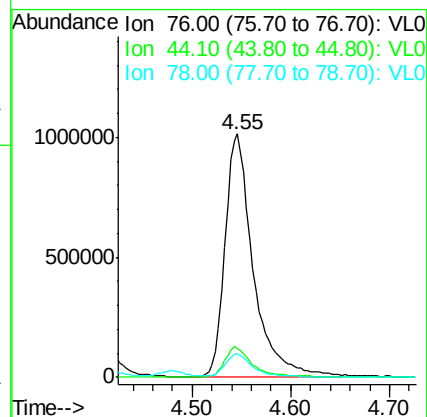
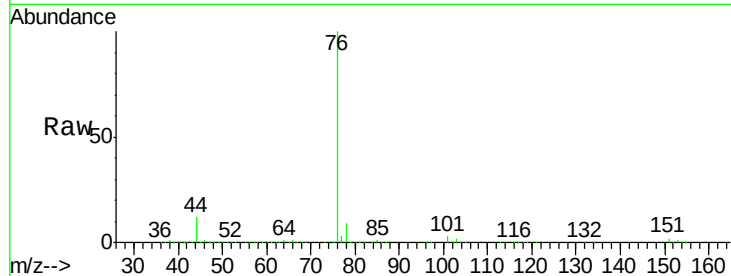
78 10.0 8.1 12.1

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11/16/2020 2:31:38 PM



#28

Methyl tert-Butyl Ether

Concen: 5.000 ppbv

RT: 5.03 min Scan# 698

Delta R.T. -0.00 min

Lab File: VL035936.D

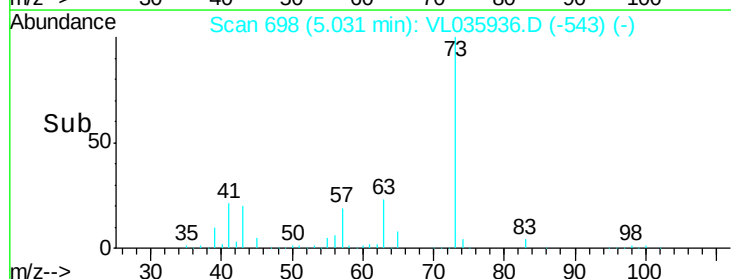
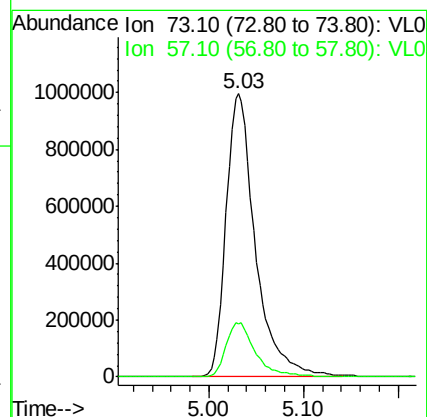
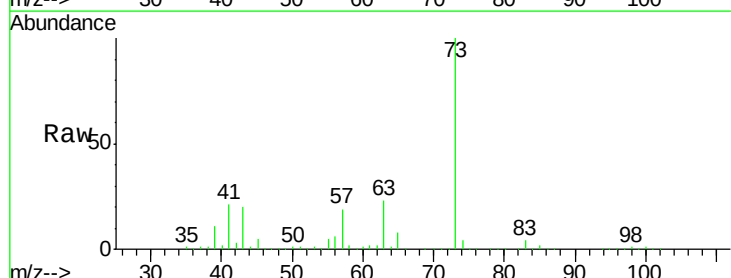
Acq: 13 Nov 2020 8:33

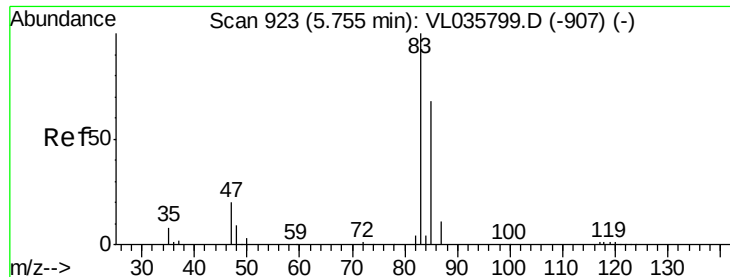
Tgt Ion: 73 Resp: 2148769

Ion Ratio Lower Upper

73 100

57 19.4 15.4 23.2





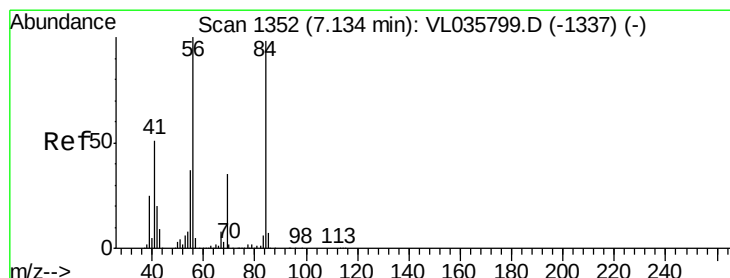
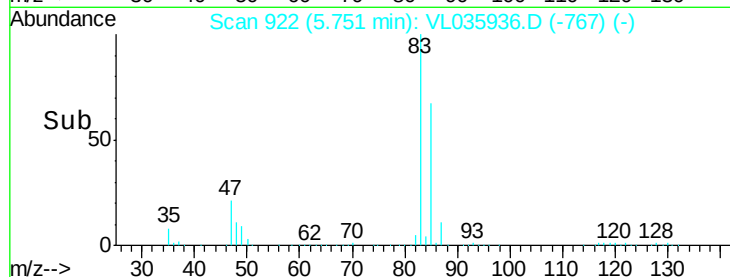
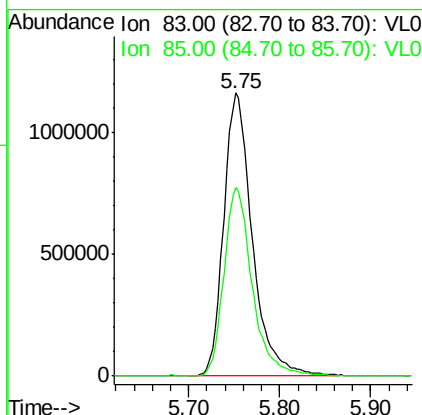
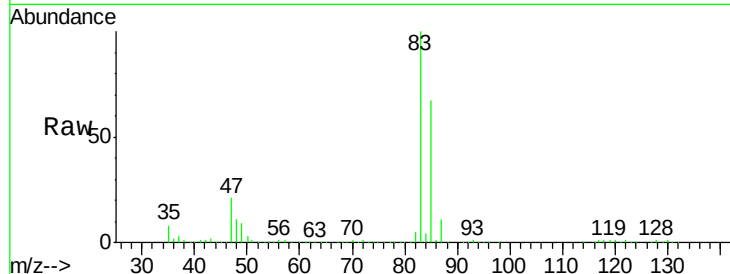
#29
Chloroform
Concen: 5.411 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2545111
Ion Ratio Lower Upper
83 100
85 66.6 54.6 81.8

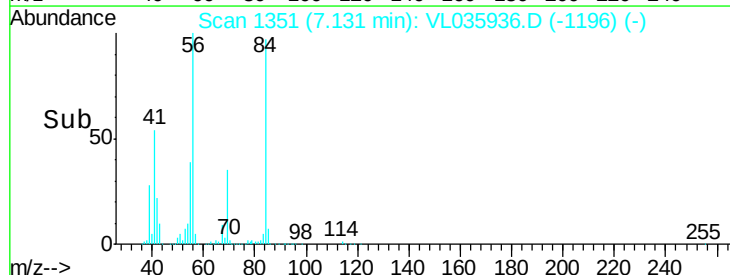
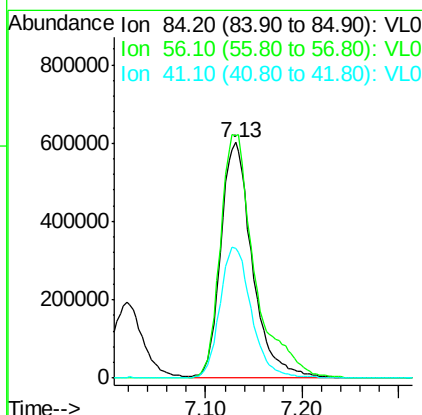
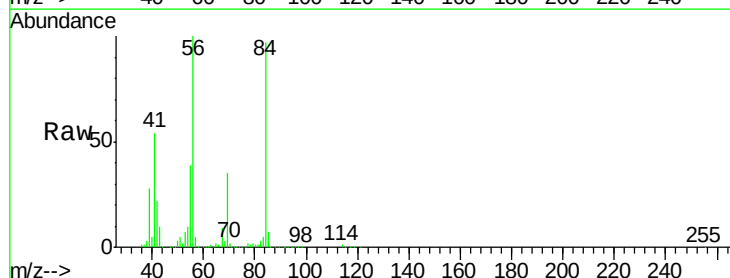
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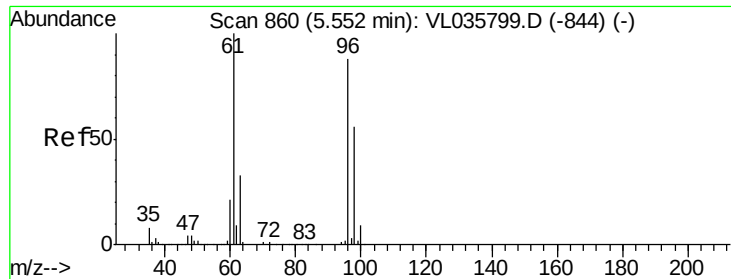
MMDadoda
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#30
Cyclohexane
Concen: 5.189 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion: 84 Resp: 1352539
Ion Ratio Lower Upper
84 100
56 114.3 86.4 129.6
41 56.2 42.1 63.1





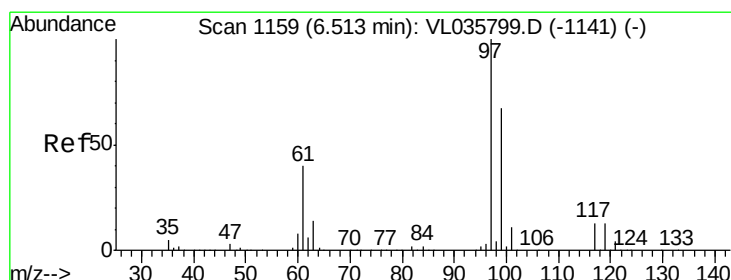
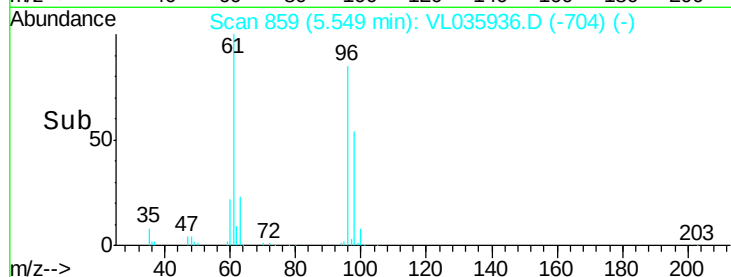
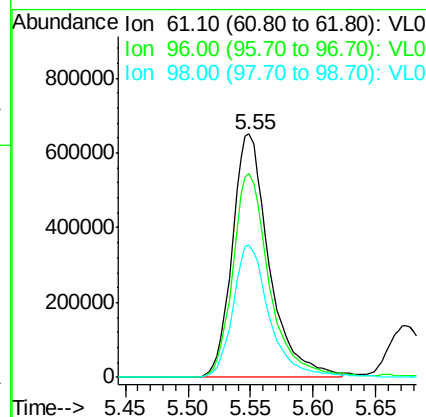
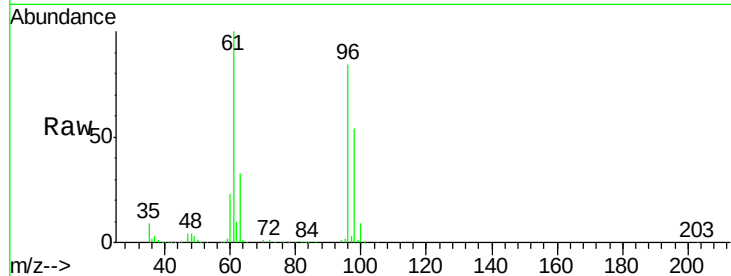
#31
 cis-1,2-Dichloroethene
 Concen: 5.393 ppbv
 RT: 5.55 min Scan# 859
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	83.9	70.3	105.5
98	54.3	45.0	67.6

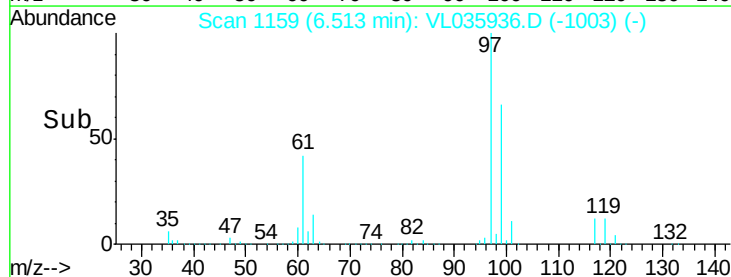
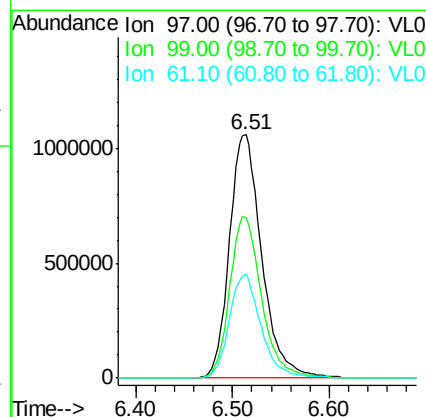
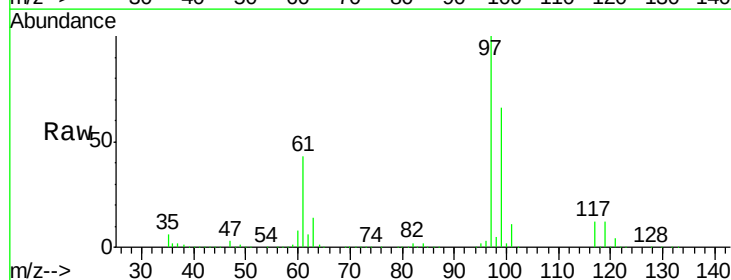
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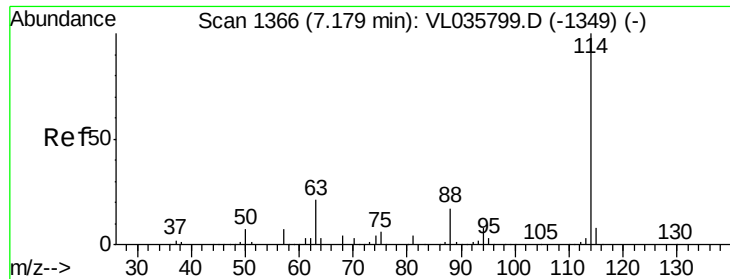
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 5.015 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. 0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	52.3	78.5
61	42.1	32.0	48.0





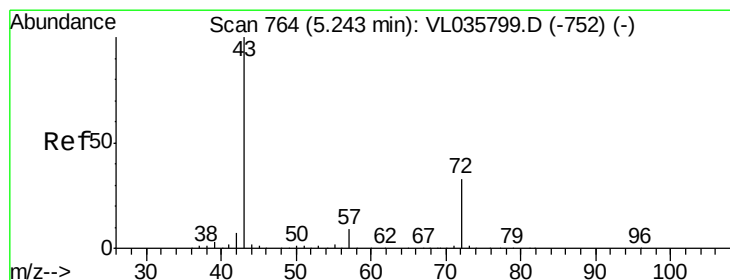
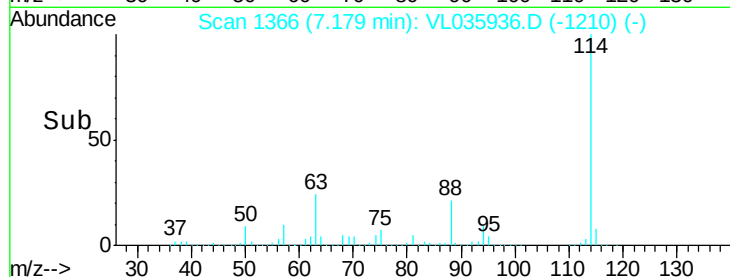
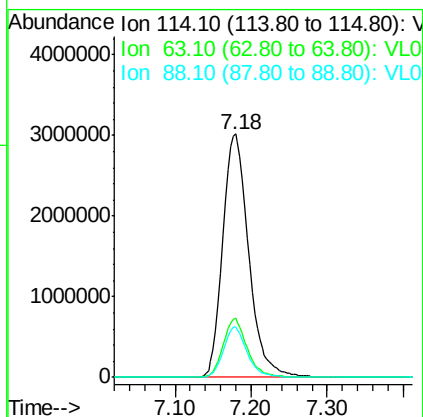
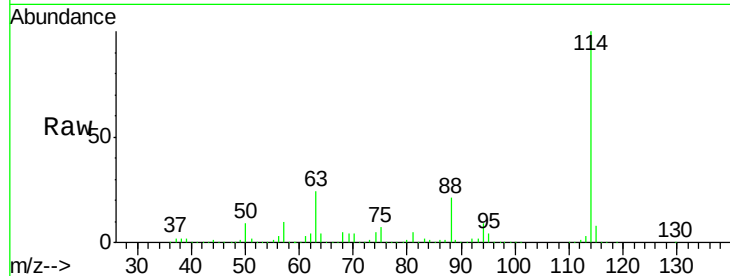
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.4	16.1	24.1
88	19.0	13.7	20.5

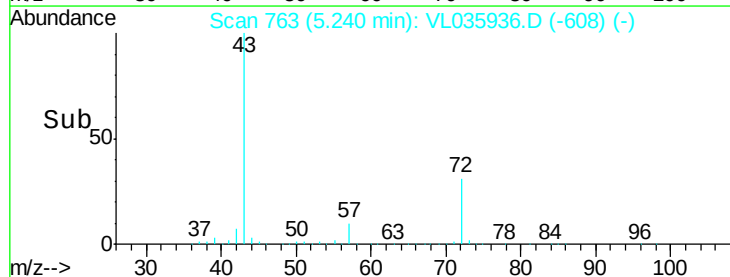
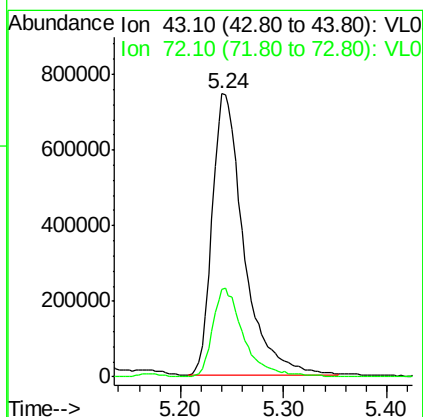
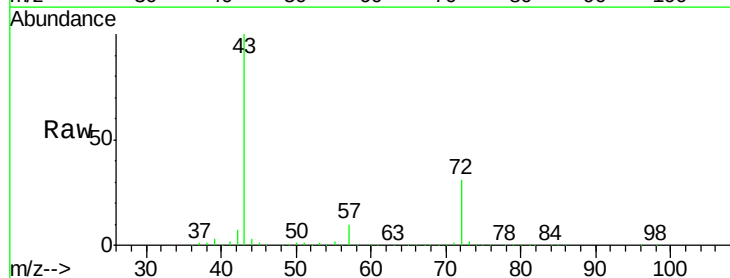
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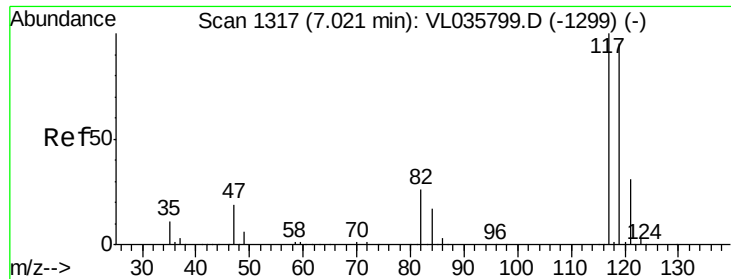
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#34
 2-Butanone
 Concen: 6.795 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.9	26.5	39.7





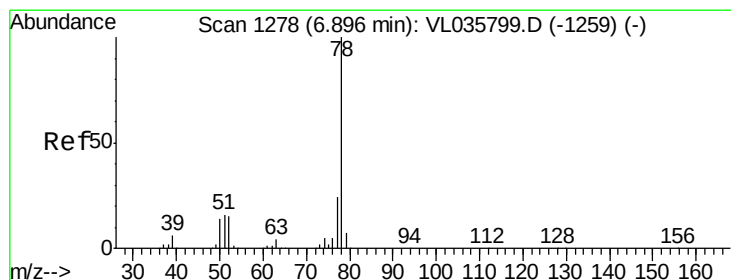
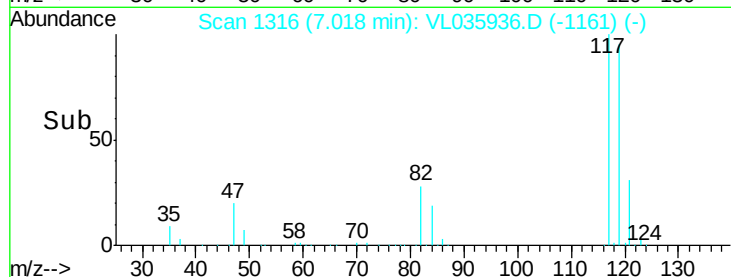
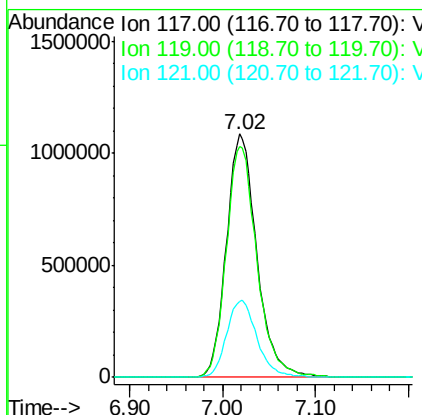
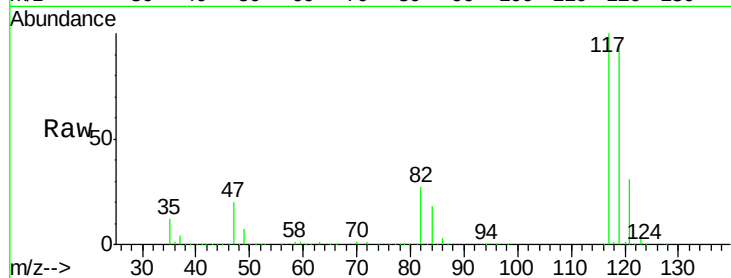
#35
Carbon Tetrachloride
Concen: 6.413 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
121	31.0	25.1	37.7

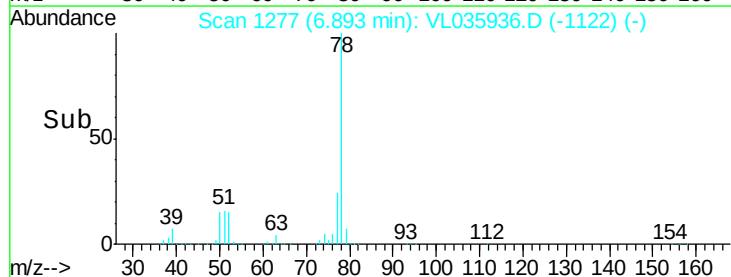
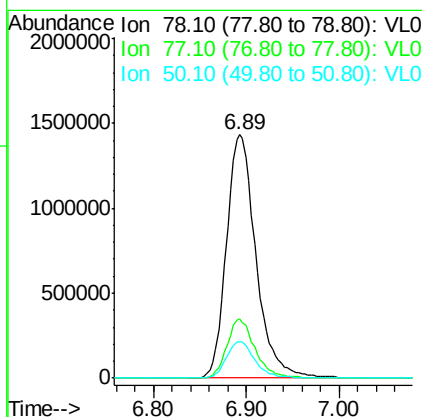
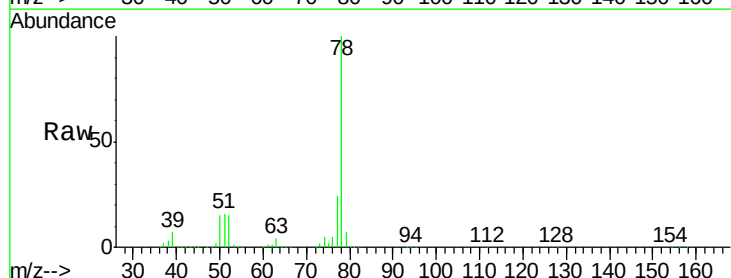
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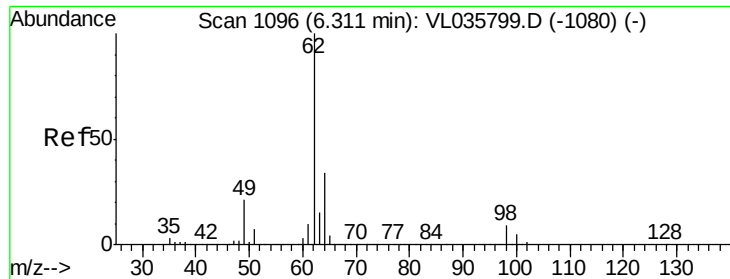
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#36
Benzene
Concen: 5.910 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.3	28.9
50	14.8	11.4	17.2





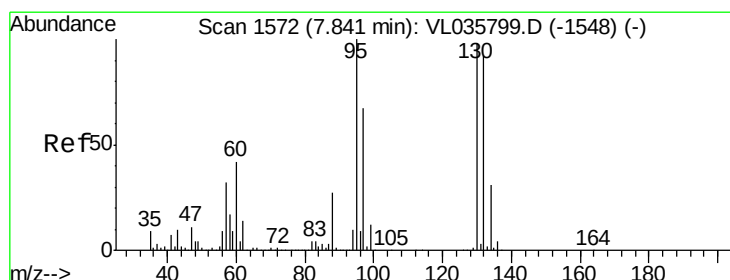
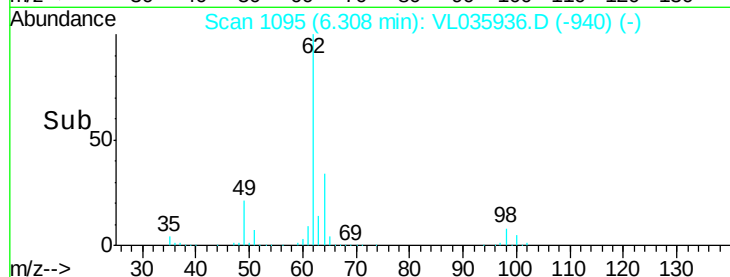
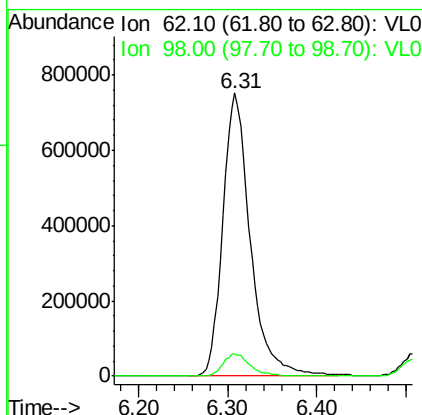
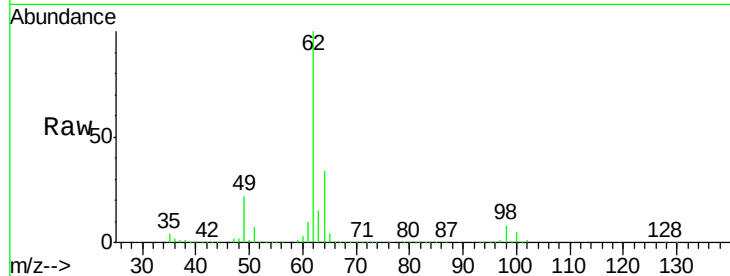
#37
1,2-Dichloroethane
Concen: 6.631 ppbv
RT: 6.31 min Scan# 1095
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 62 Resp: 1606048
Ion Ratio Lower Upper
62 100
98 8.0 6.9 10.3

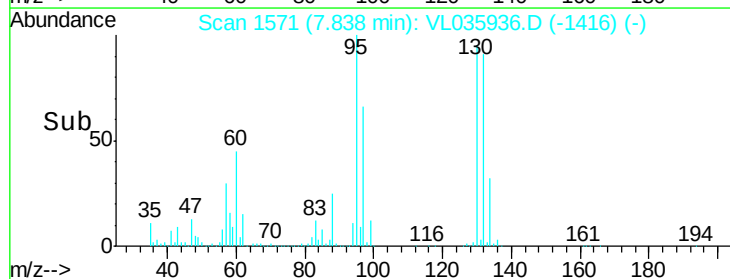
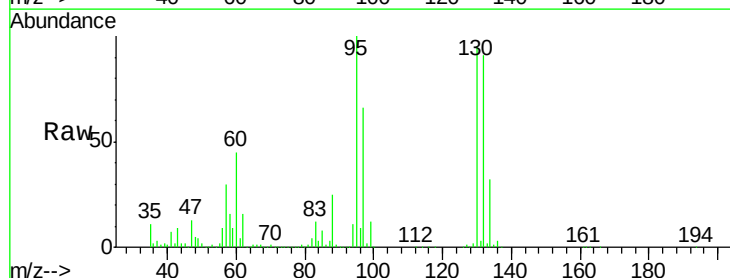
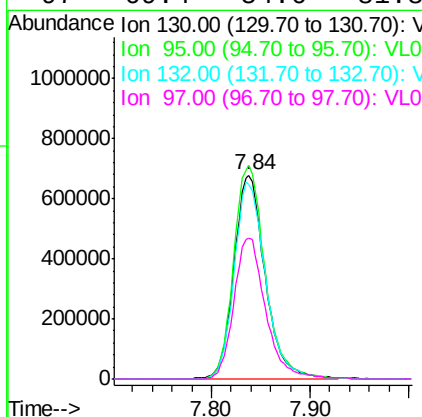
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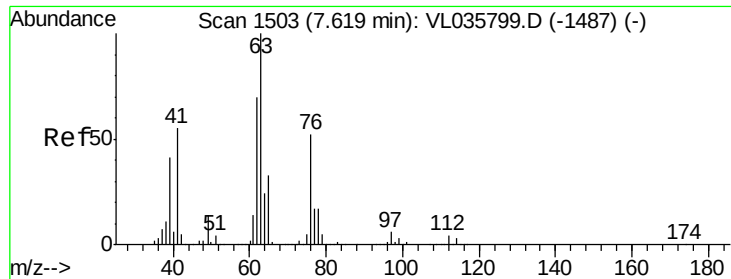
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#38
Trichloroethene
Concen: 5.659 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion:130 Resp: 1477974
Ion Ratio Lower Upper
130 100
95 105.0 81.6 122.4
132 95.4 75.1 112.7
97 69.4 54.6 81.8





#39

1,2-Dichloropropane

Concen: 6.255 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 63 Resp: 1125976

Ion Ratio Lower Upper

63 100

41 56.5 43.8 65.6

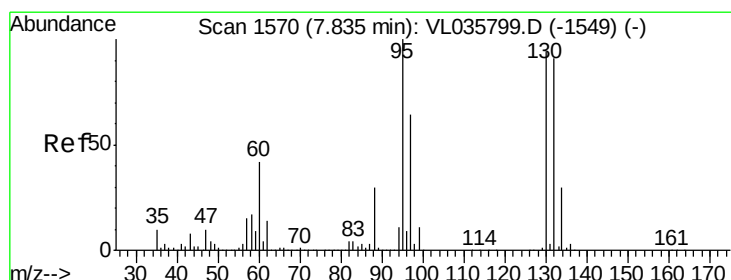
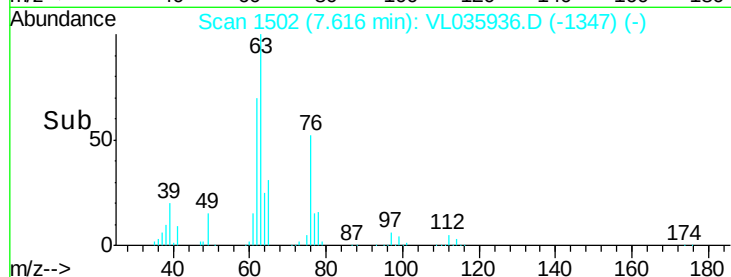
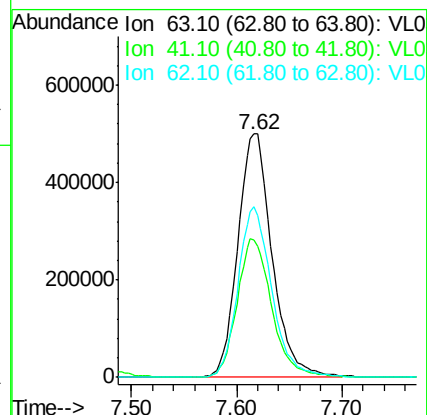
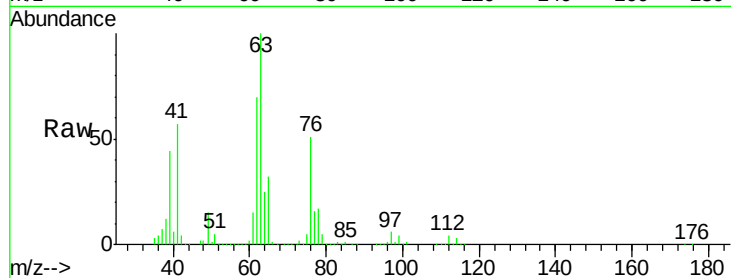
62 70.0 56.2 84.2

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#40

1,4-Dioxane

Concen: 5.582 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion: 88 Resp: 476185

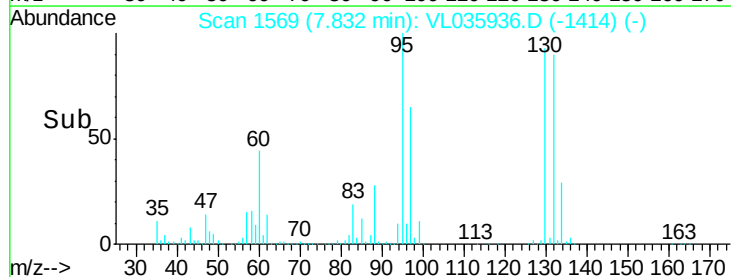
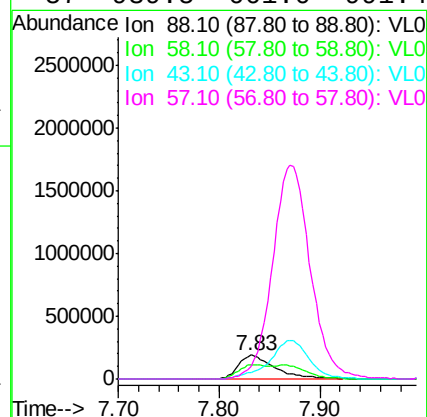
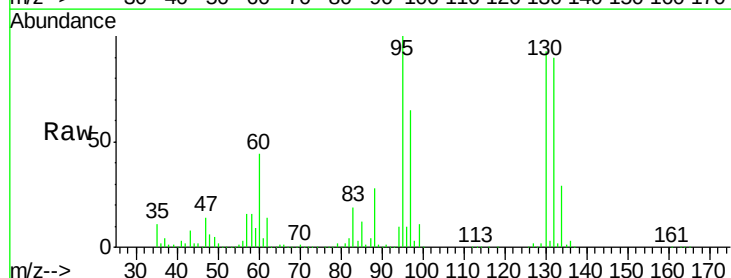
Ion Ratio Lower Upper

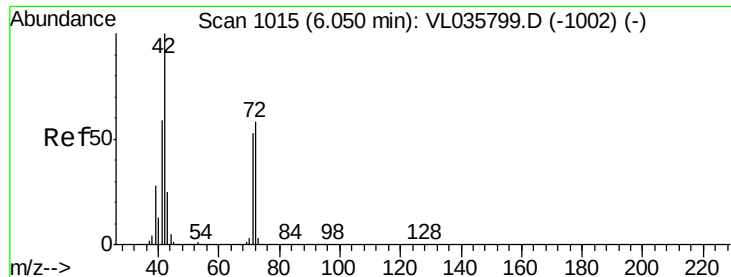
88 100

58 103.3 76.2 114.2

43 179.8 123.1 184.7

57 939.5 661.0 991.4





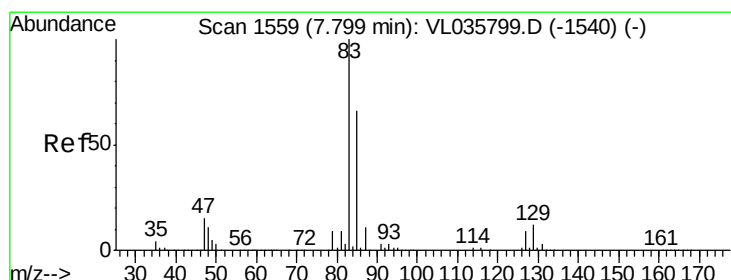
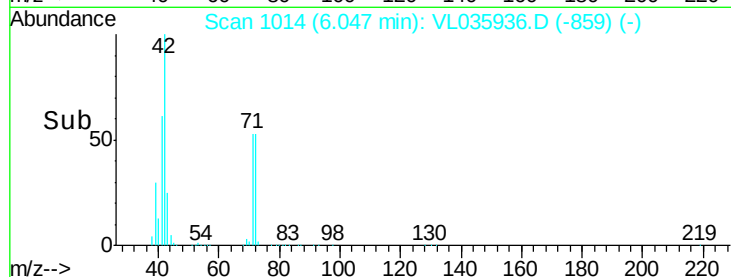
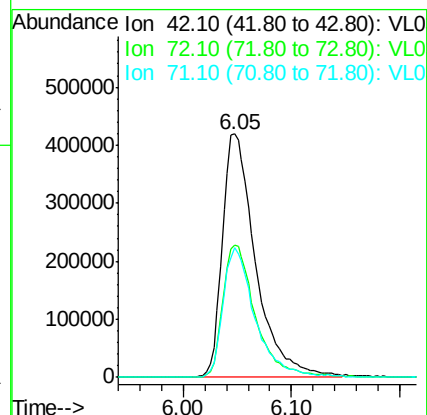
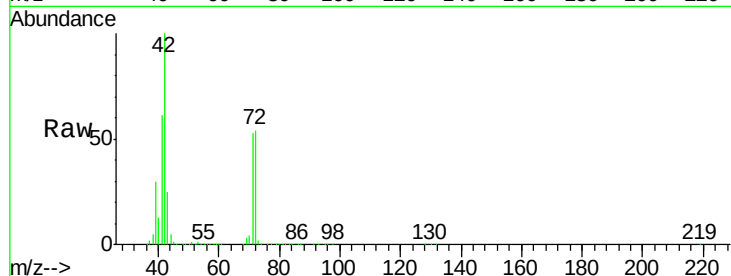
#41
Tetrahydrofuran
Concen: 6.766 ppbv
RT: 6.05 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	53.9	45.4	68.0
71	51.9	43.4	65.2

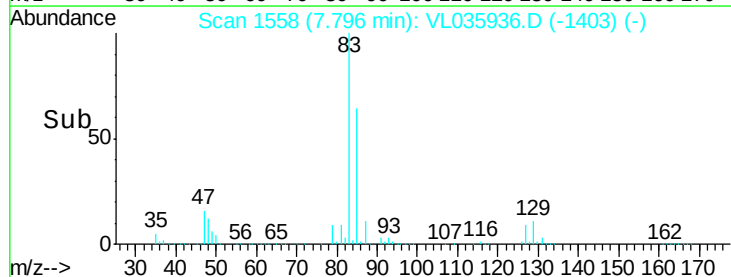
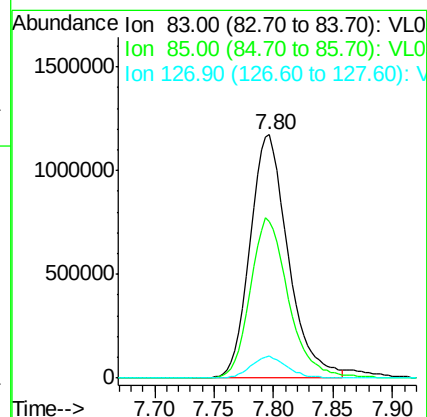
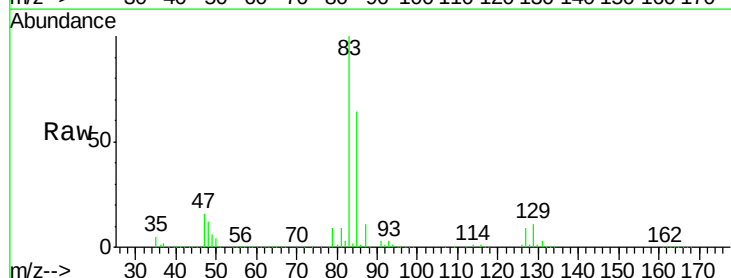
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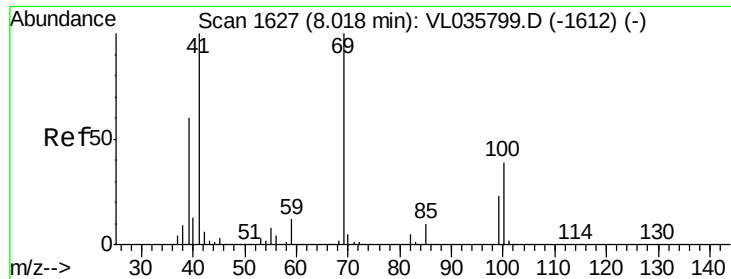
MMDadoda
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#42
Bromodichloromethane
Concen: 6.389 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	53.1	79.7
127	8.9	7.3	10.9





#43

Methyl Methacrylate

Concen: 6.474 ppbv

RT: 8.02 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

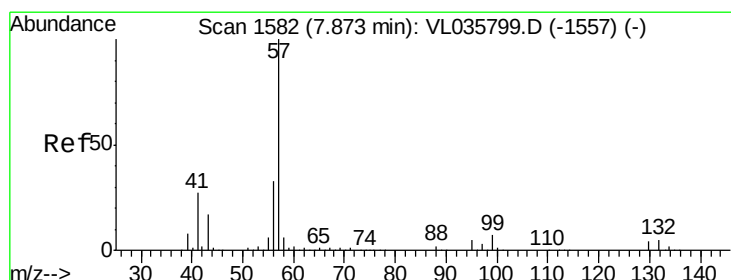
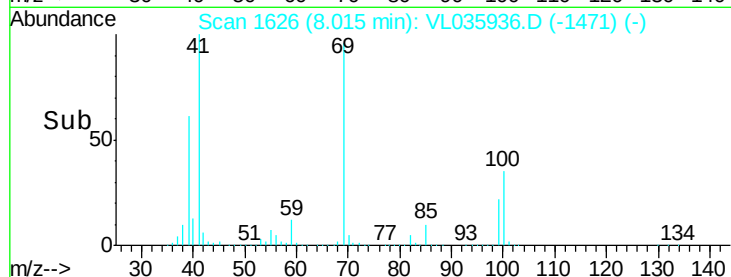
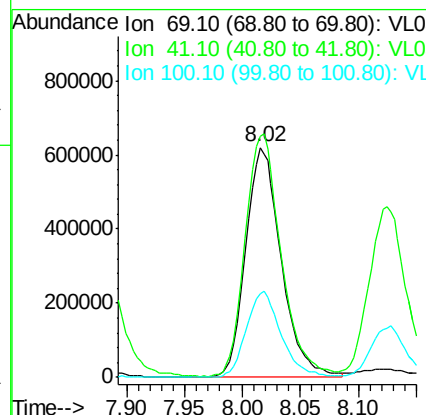
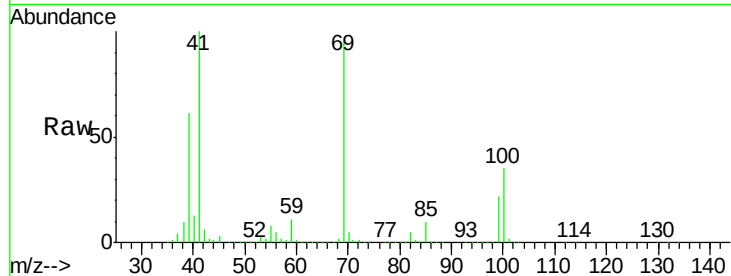
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1320335

Ion	Ratio	Lower	Upper
69	100		
41	107.5	81.1	121.7
100	36.9	31.0	46.4

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#44

2,2,4-Trimethylpentane

Concen: 6.319 ppbv

RT: 7.87 min Scan# 1581

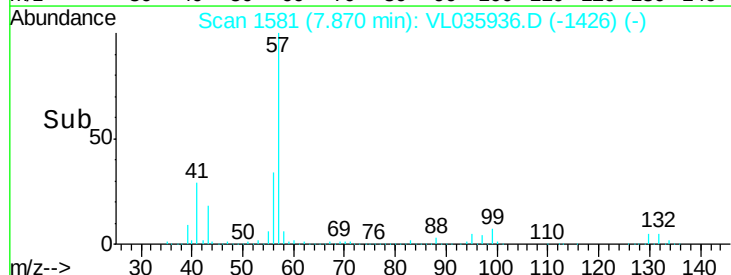
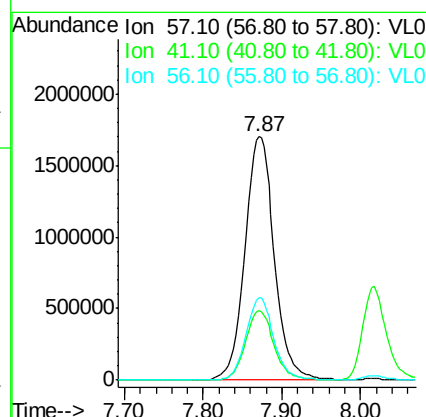
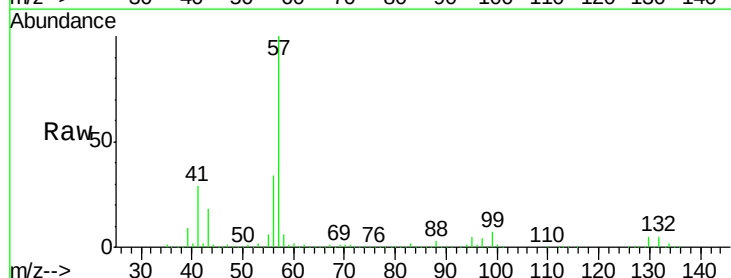
Delta R.T. -0.00 min

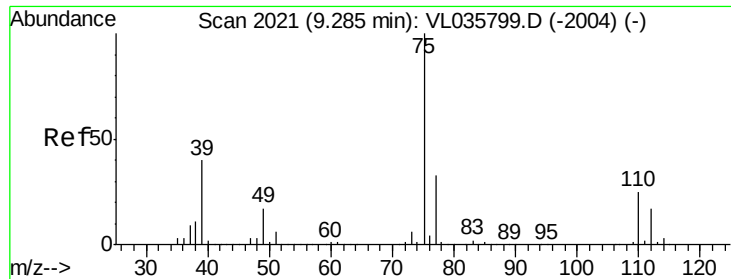
Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion: 57 Resp: 4470736

Ion	Ratio	Lower	Upper
57	100		
41	27.6	21.0	31.4
56	32.1	25.4	38.0





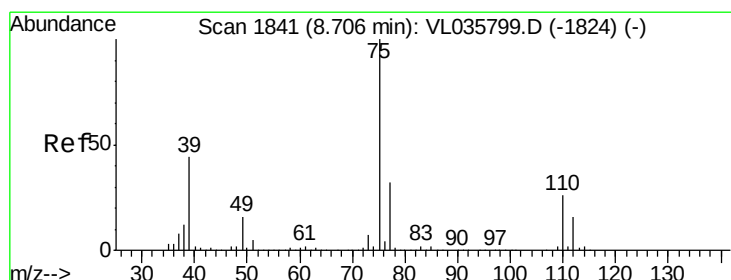
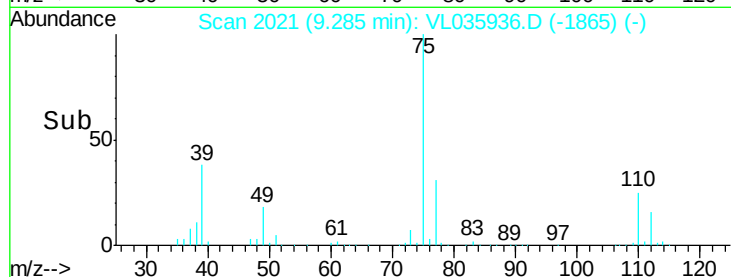
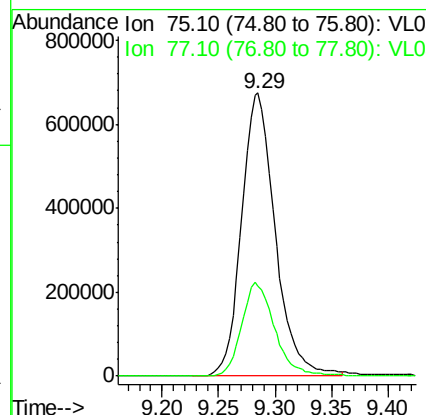
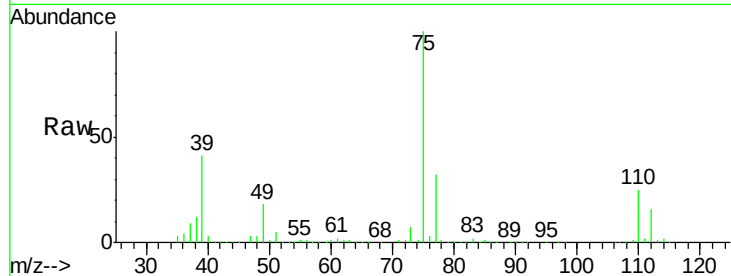
#45
t-1,3-Dichloropropene
Concen: 6.469 ppbv
RT: 9.29 min Scan# 2021
Delta R.T. 0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1398531
Ion Ratio Lower Upper
75 100
77 31.6 26.4 39.6

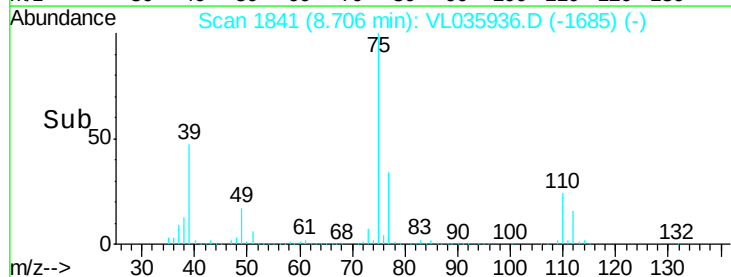
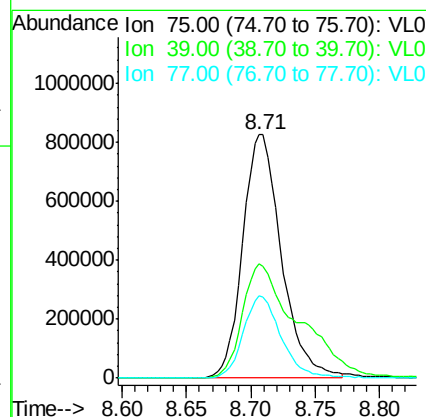
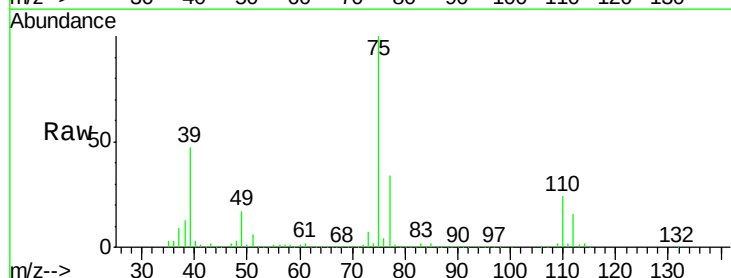
Manual Integrations
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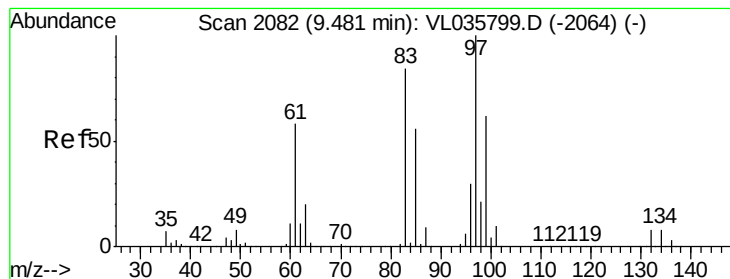
MMDadoda
11/16/2020 2:31:38 PM



#46
cis-1,3-Dichloropropene
Concen: 6.310 ppbv
RT: 8.71 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion: 75 Resp: 1727665
Ion Ratio Lower Upper
75 100
39 46.8 35.1 52.7
77 34.0 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 6.061 ppbv

RT: 9.48 min Scan# 2082

Delta R.T. 0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 1486513

Ion Ratio Lower Upper

97 100

83 84.4 67.1 100.7

85 54.8 44.7 67.1

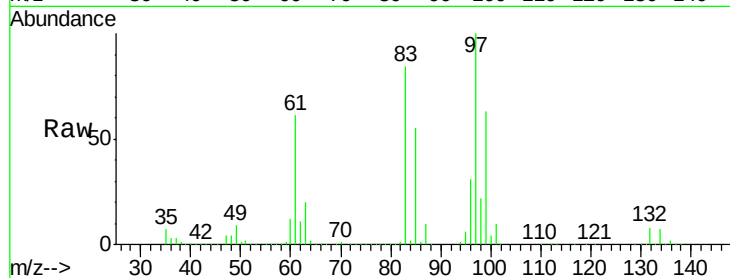
99 63.2 49.7 74.5

Manual Integrations

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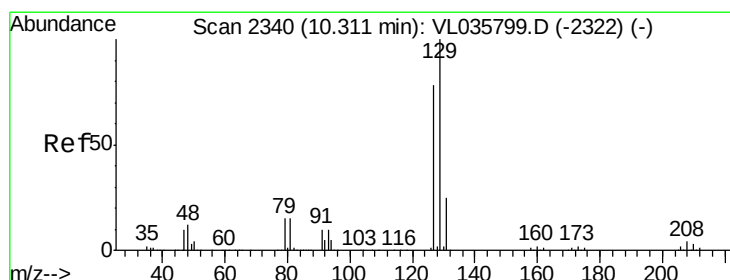
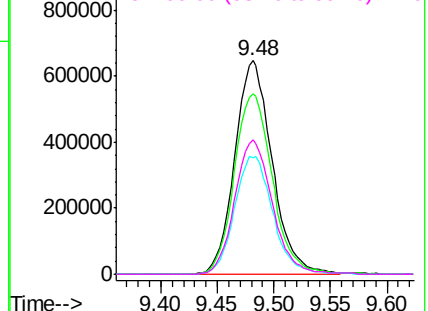
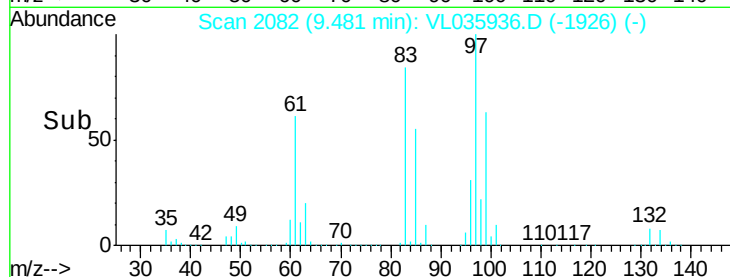


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 6.490 ppbv

RT: 10.31 min Scan# 2340

Delta R.T. 0.00 min

Lab File: VL035936.D

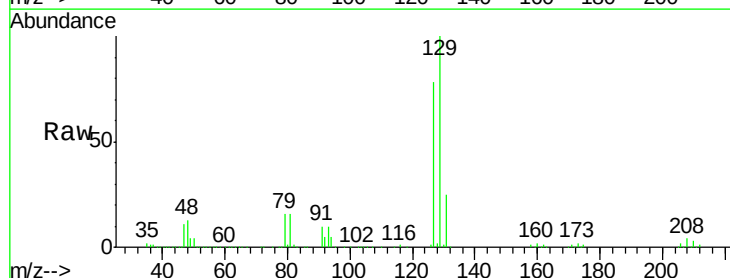
Acq: 13 Nov 2020 8:33

Tgt Ion: 129 Resp: 2431791

Ion Ratio Lower Upper

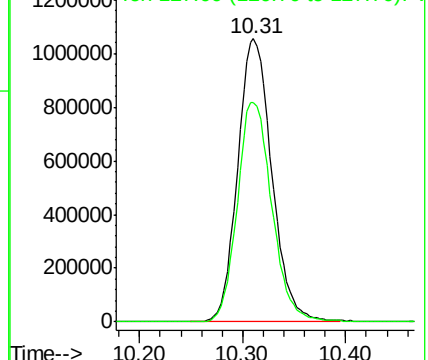
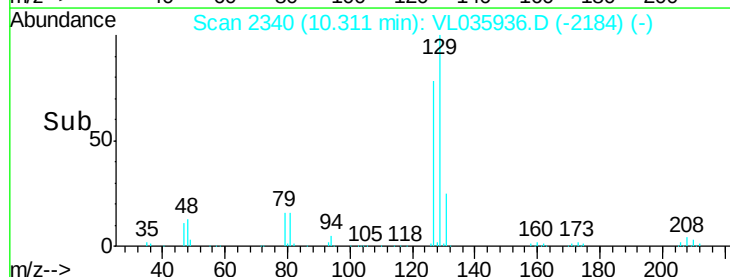
129 100

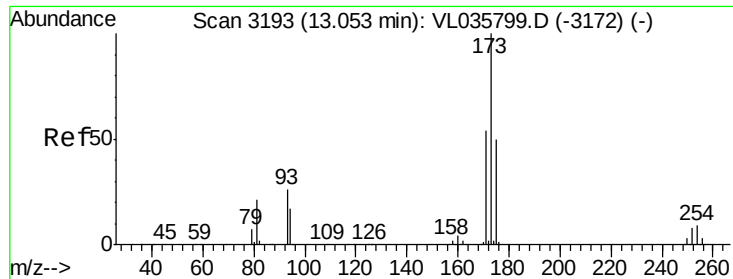
127 78.9 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 6.611 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 2090208

Ion Ratio Lower Upper

173 100

175 49.4 40.1 60.1

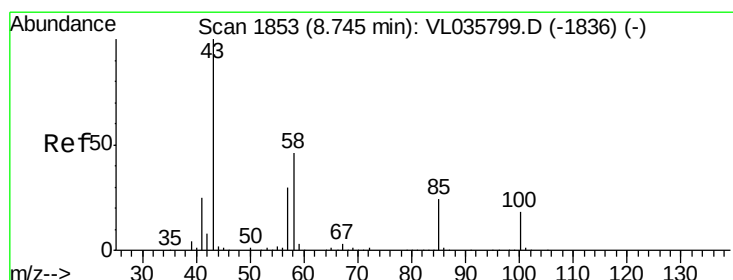
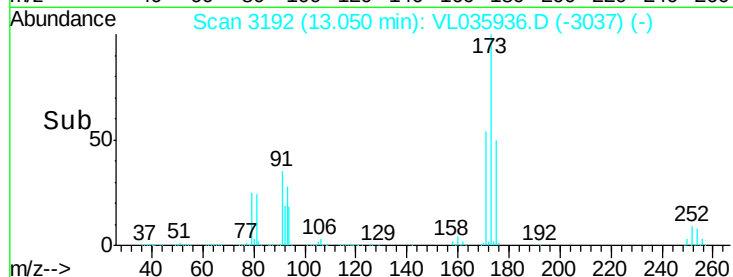
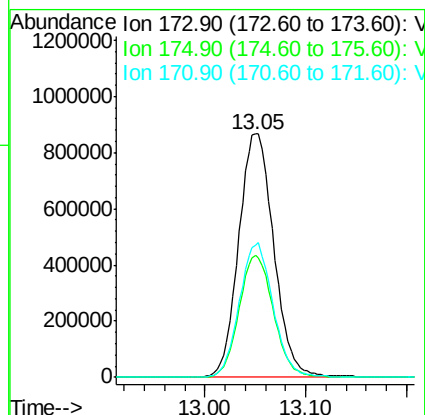
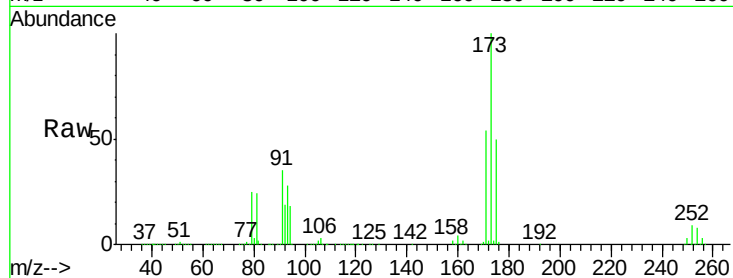
171 53.3 42.6 63.8

Manual Integrations

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#50

4-Methyl-2-Pentanone

Concen: 7.047 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VL035936.D

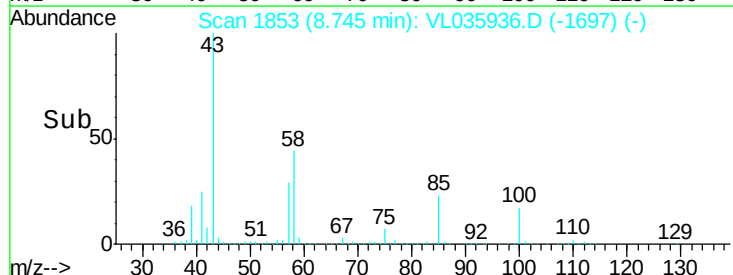
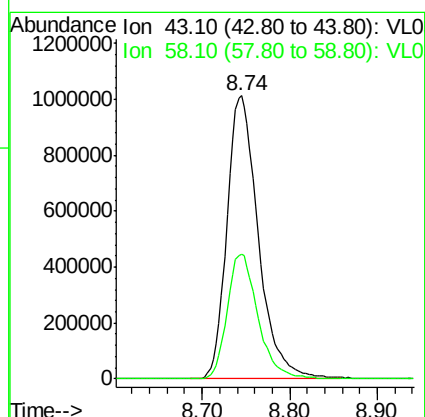
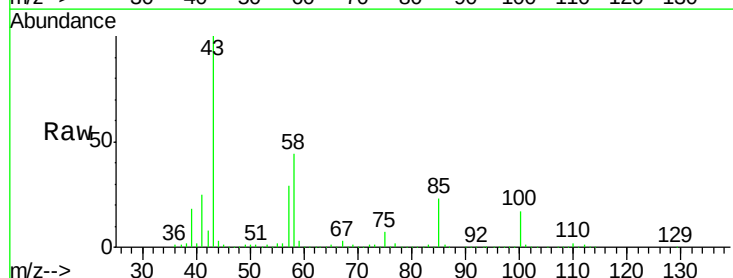
Acq: 13 Nov 2020 8:33

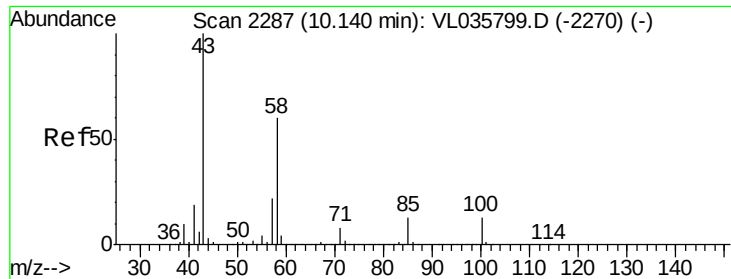
Tgt Ion: 43 Resp: 2515247

Ion Ratio Lower Upper

43 100

58 43.5 36.0 54.0





#51

2-Hexanone

Concen: 7.198 ppbv

RT: 10.14 min Scan# 2286

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2063556

Ion Ratio Lower Upper

43 100

58 58.2 48.3 72.5

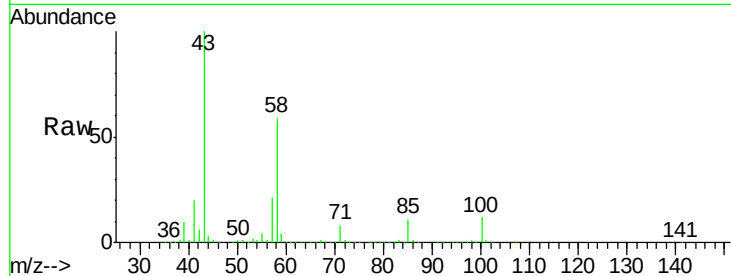
98 0.9 0.6 0.8#

Manual Integrations

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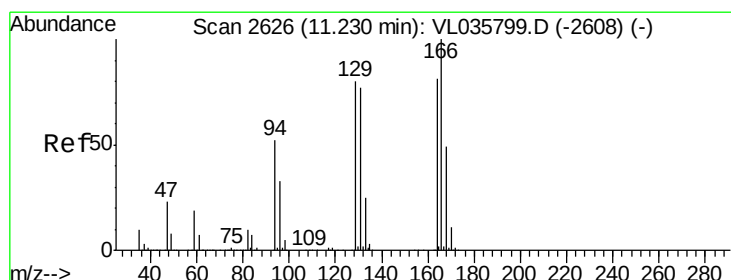
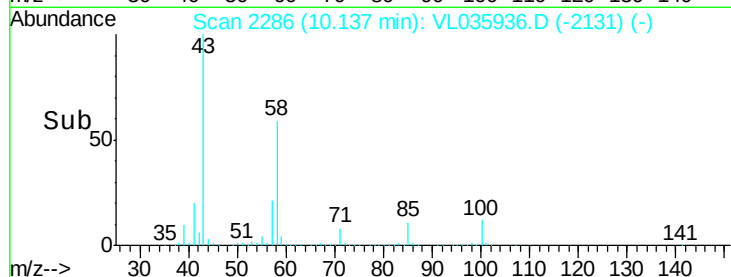
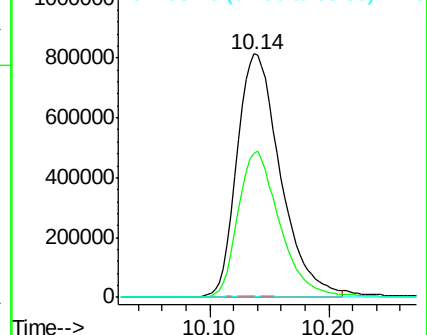
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 5.339 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion:164 Resp: 1352328

Ion Ratio Lower Upper

164 100

166 124.2 99.3 148.9

129 100.1 79.3 118.9

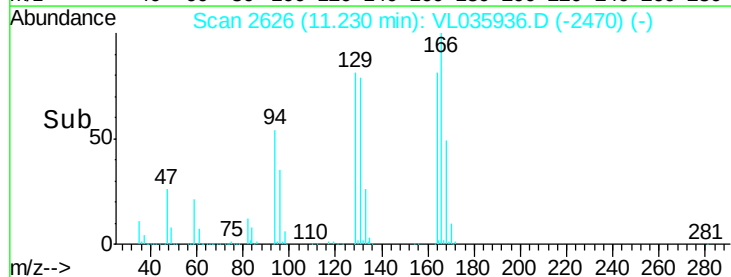
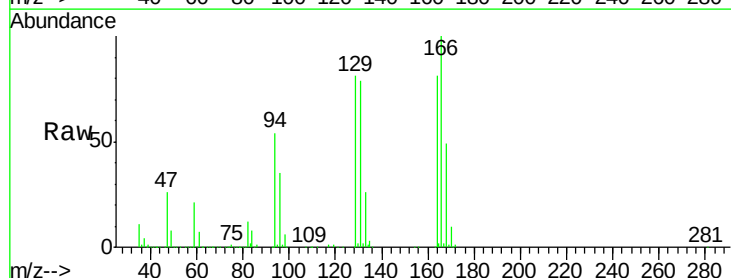
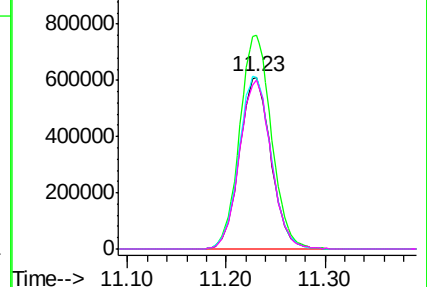
131 98.5 76.5 114.7

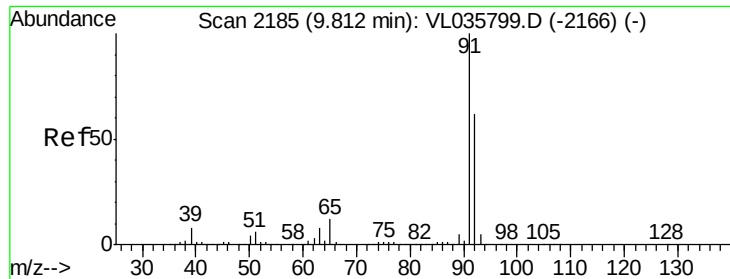
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 5.991 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3864869

Ion Ratio Lower Upper

91 100

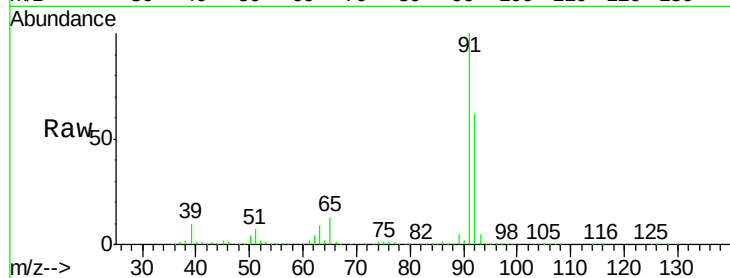
92 61.6 49.8 74.6

Manual Integrations

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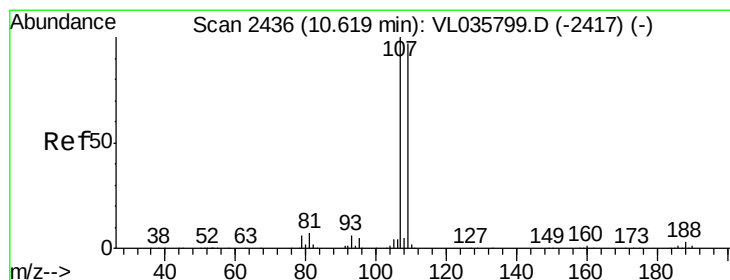
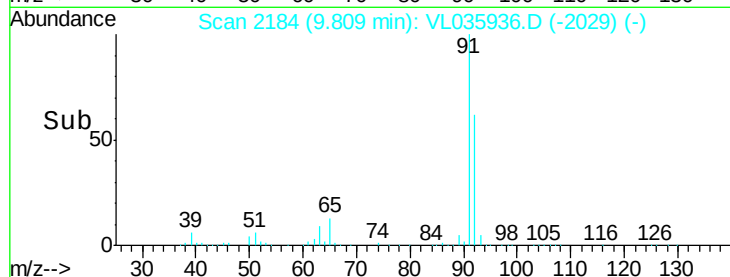
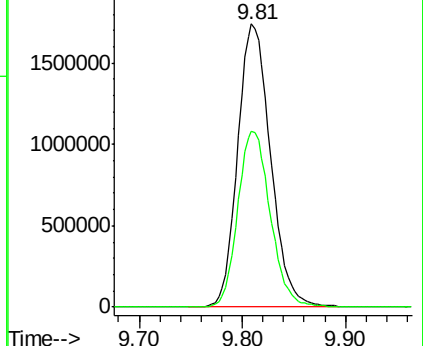
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 6.054 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VL035936.D

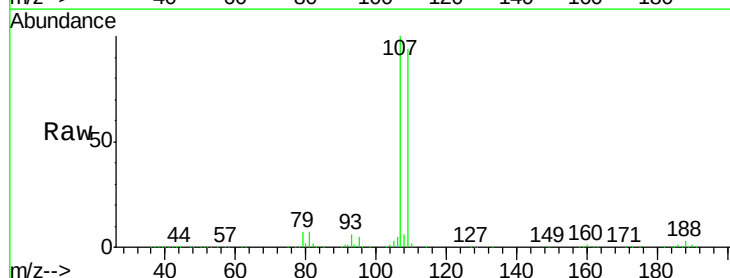
Acq: 13 Nov 2020 8:33

Tgt Ion: 107 Resp: 2258203

Ion Ratio Lower Upper

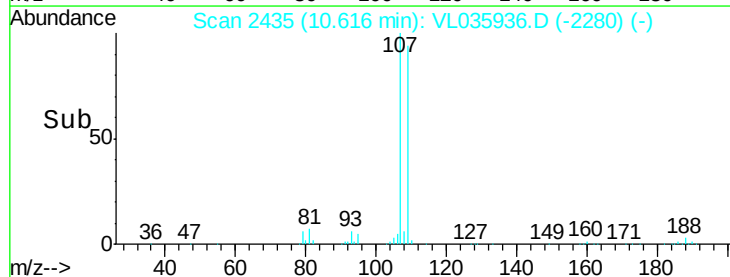
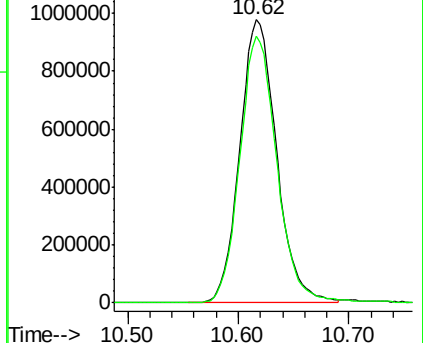
107 100

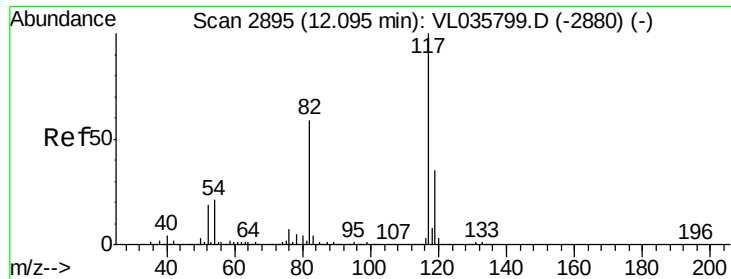
109 94.2 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





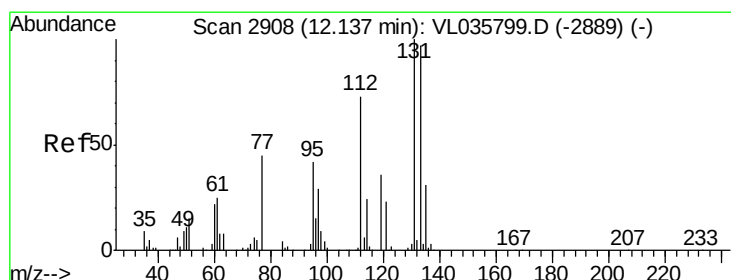
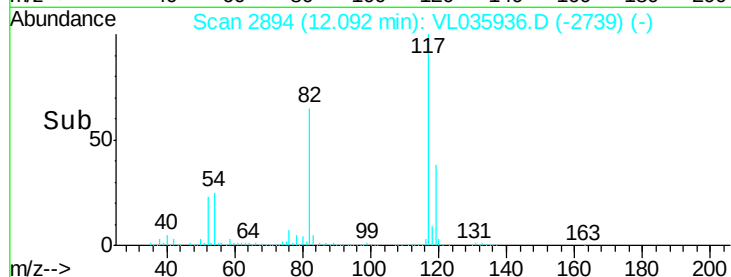
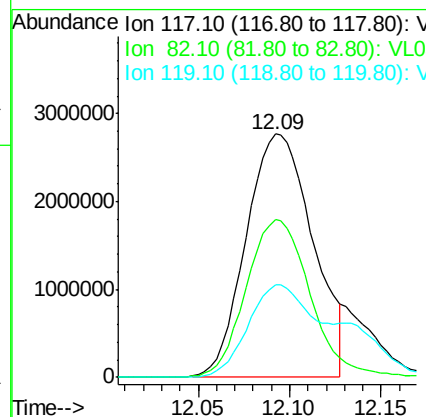
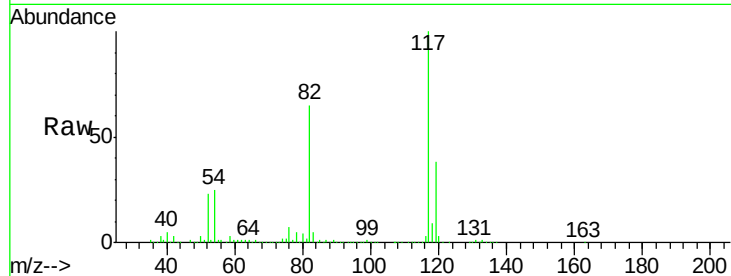
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	50.6	76.0
119	52.9	52.6	78.8

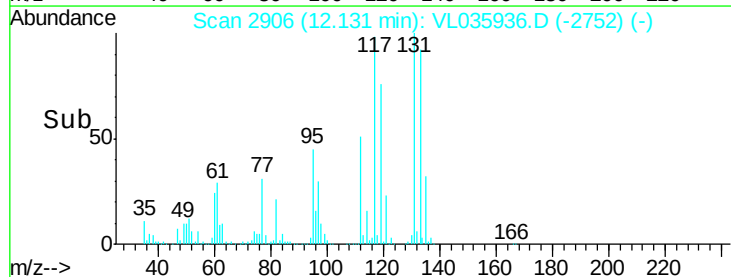
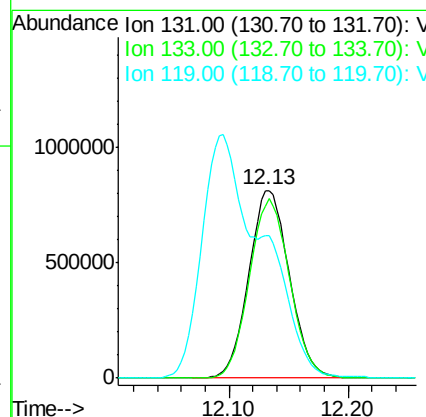
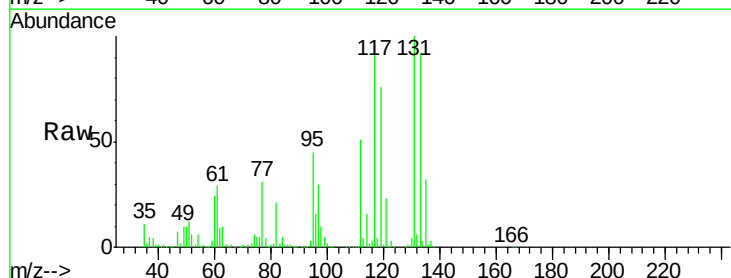
Manual Integrations
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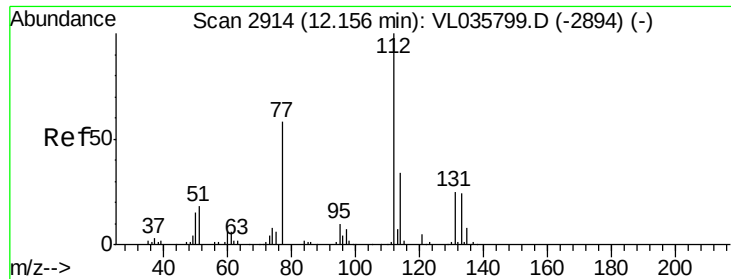
MMDadoda
11/16/2020 2:31:38 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 6.079 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	76.8	115.2
119	193.7	47.4	71.0#





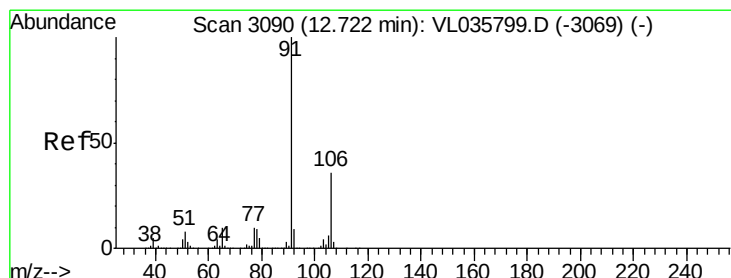
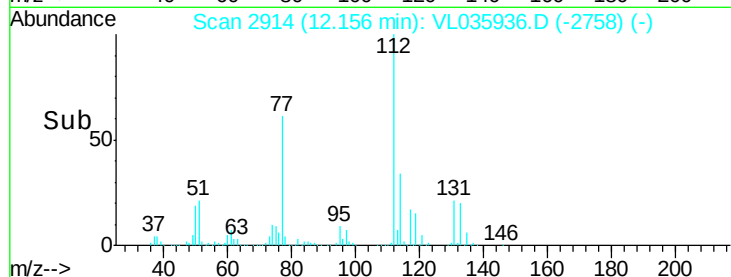
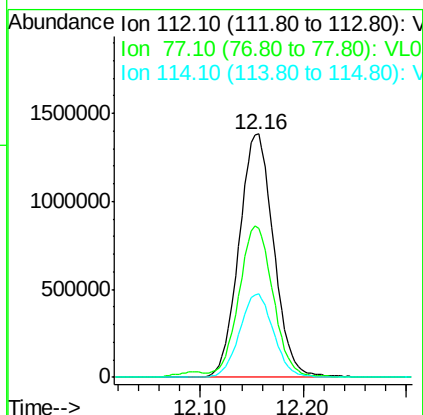
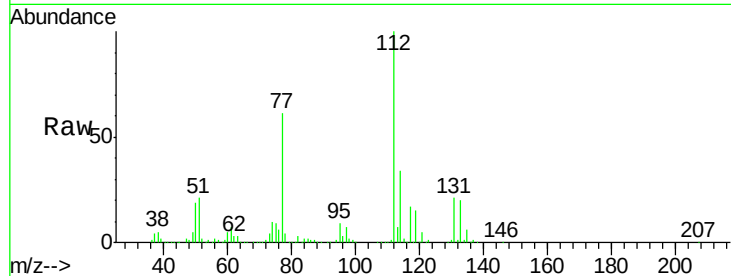
#57
Chlorobenzene
Concen: 5.767 ppbv
RT: 12.16 min Scan# 2914
Delta R.T. 0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	60.7	47.5	71.3
114	34.3	30.3	37.1

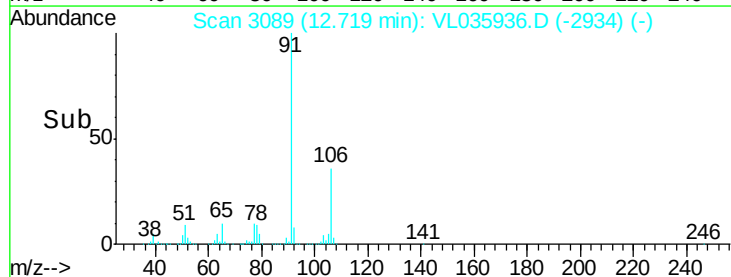
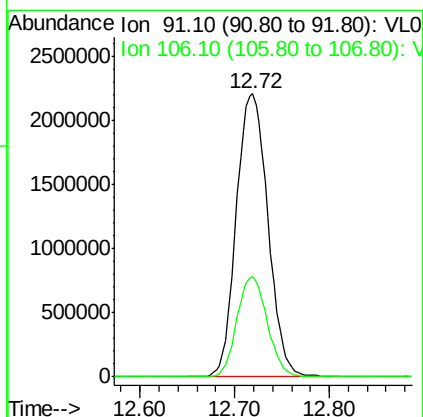
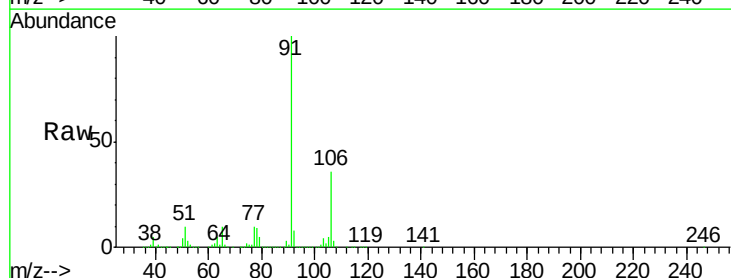
Manual Integrations
APPROVED

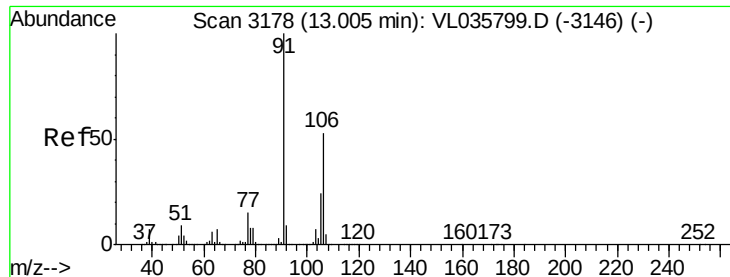
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11/16/2020 2:31:38 PM



#58
Ethyl Benzene
Concen: 5.980 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	35.6	28.6	43.0





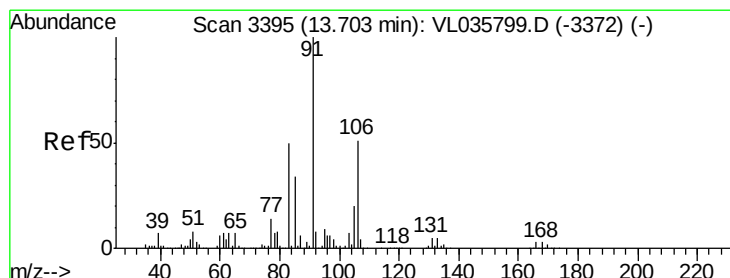
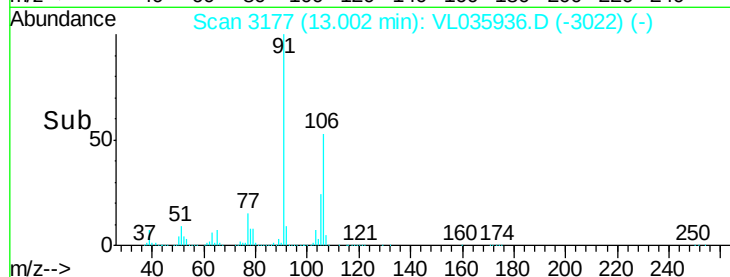
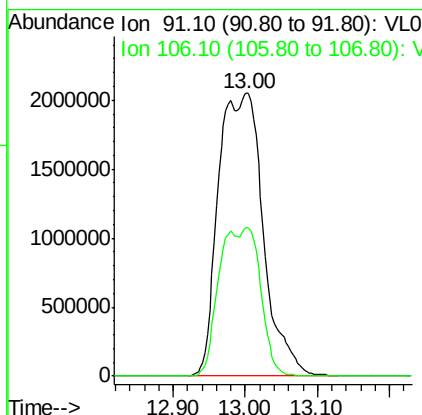
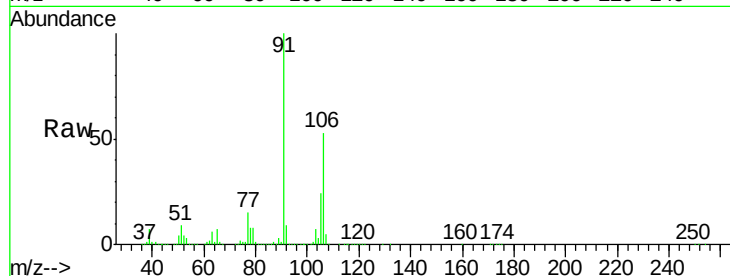
#59
m/p-Xylene
Concen: 12.217 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8857484
Ion Ratio Lower Upper
91 100
106 48.6 39.5 59.3

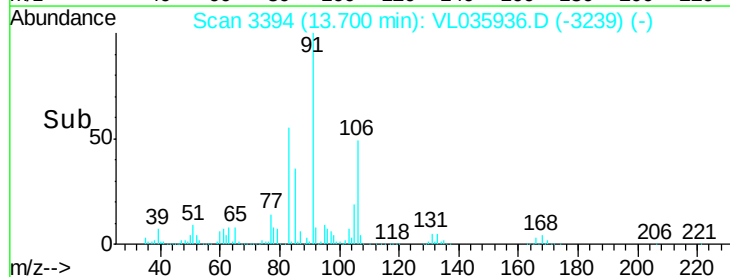
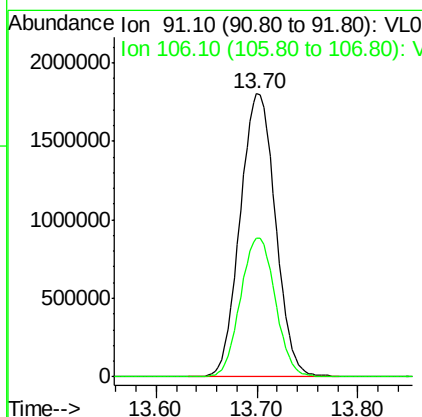
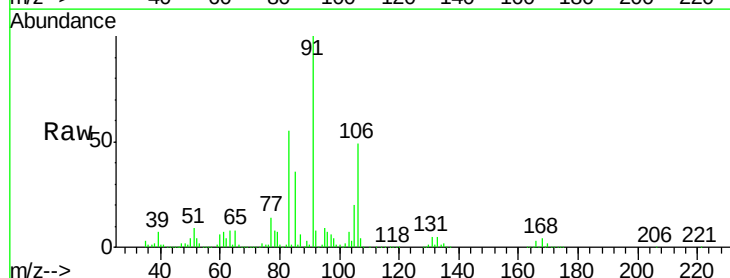
Manual Integrations
APPROVED

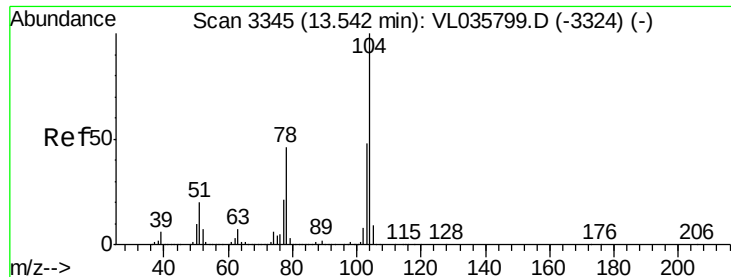
MMDadoda
11/16/2020 2:31:38 PM



#60
o-Xylene
Concen: 6.190 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL035936.D
Acq: 13 Nov 2020 8:33

Tgt Ion: 91 Resp: 4365568
Ion Ratio Lower Upper
91 100
106 48.6 24.8 74.4





#61

Stvrene

Concen: 6.239 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 3223927

Ion Ratio Lower Upper

104 100

78 48.0 37.1 55.7

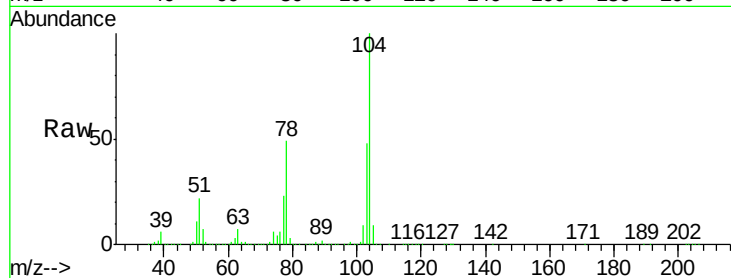
103 47.5 37.9 56.9

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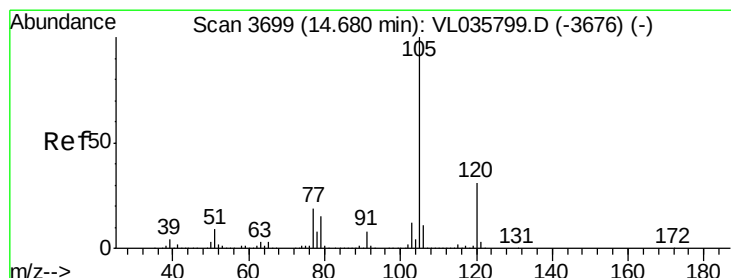
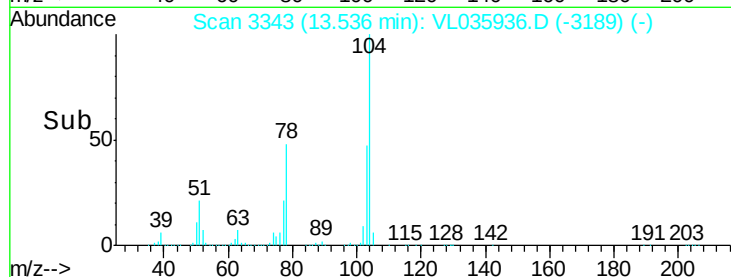
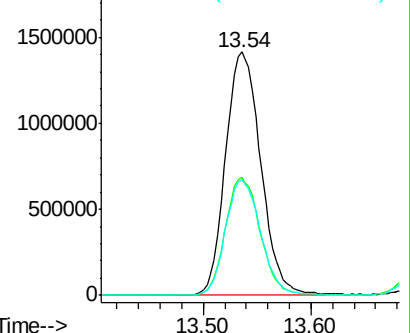
11/16/2020 2:31:38 PM



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: 5.836 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL035936.D

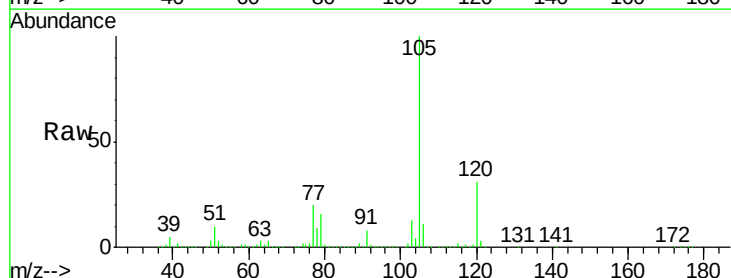
Acq: 13 Nov 2020 8:33

Tgt Ion:105 Resp: 6469432

Ion Ratio Lower Upper

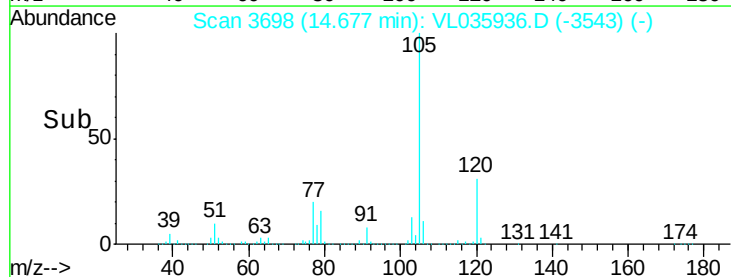
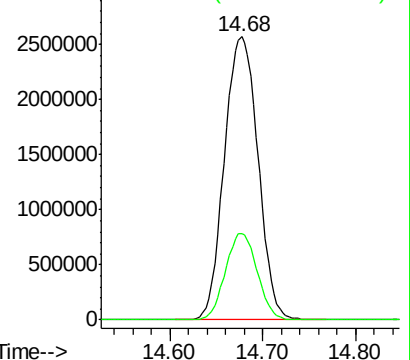
105 100

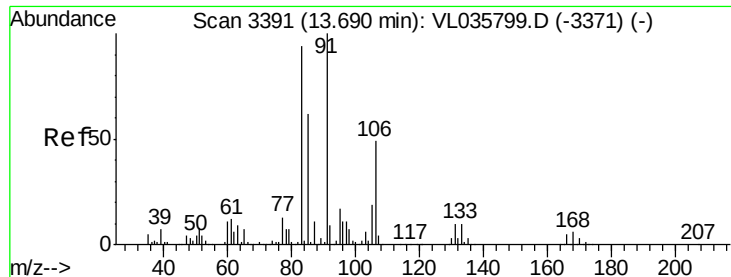
120 28.9 23.5 35.3



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





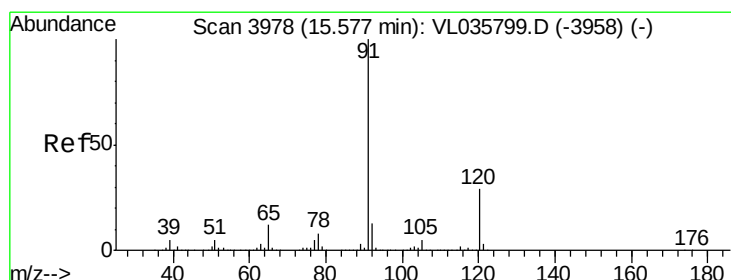
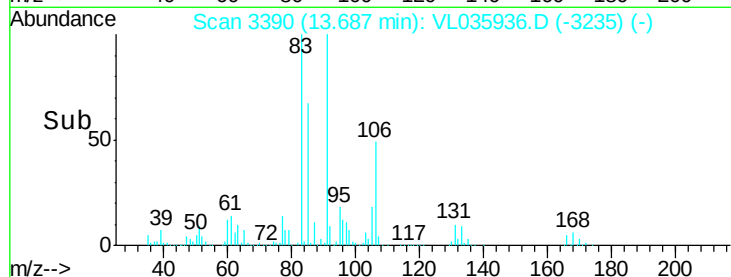
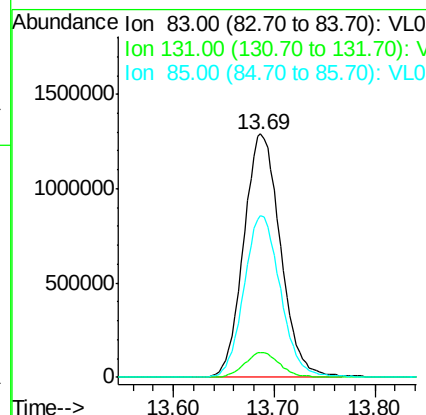
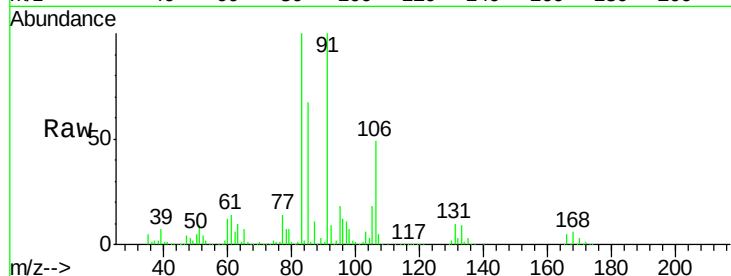
#63
 1,1,2,2-Tetrachloroethane
 Concen: 5.957 ppbv
 RT: 13.69 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	3255135
Ion Ratio	Lower	Upper	
83	100		
131	9.9	5.3	15.8
85	66.3	33.5	100.4

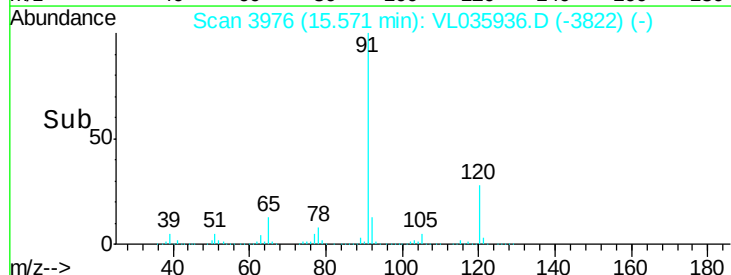
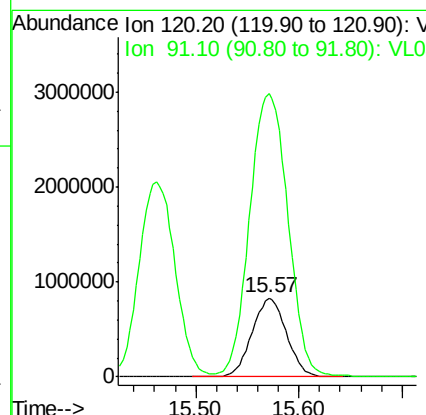
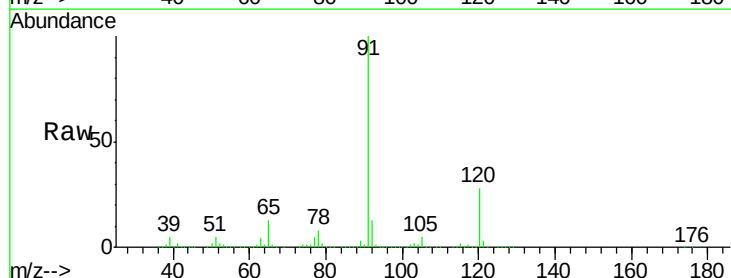
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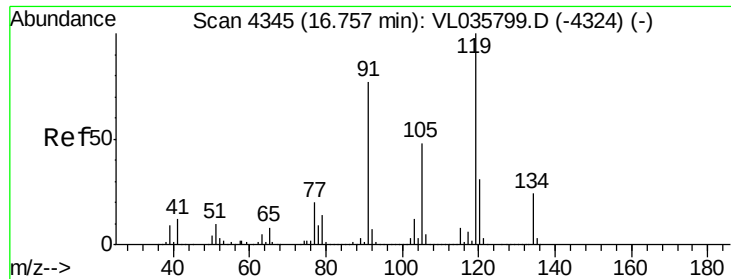
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#64
 n-propylbenzene
 Concen: 6.007 ppbv
 RT: 15.57 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion	120	Resp	1924606
Ion Ratio	Lower	Upper	
120	100		
91	399.6	311.1	466.7





#65

tert-Butylbenzene

Concen: 5.929 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 5982414

Ion Ratio Lower Upper

119 100

91 80.2 62.0 93.0

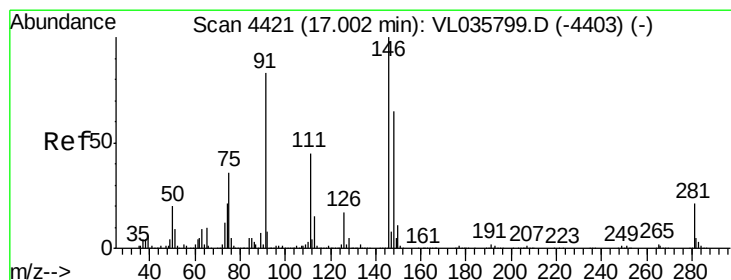
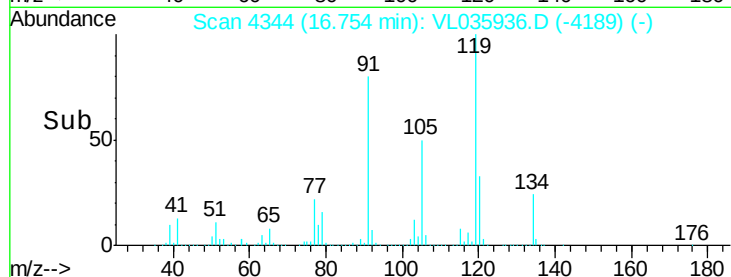
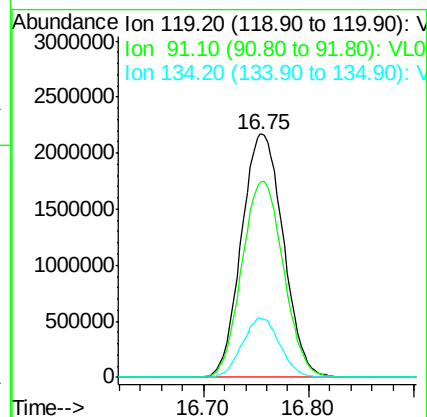
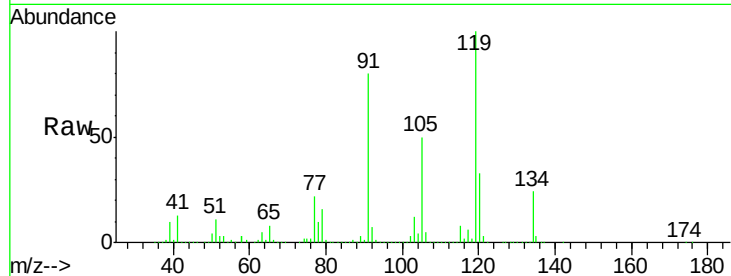
134 22.0 17.8 26.8

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11/16/2020 2:31:38 PM



#66

Benzyl Chloride

Concen: 6.611 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

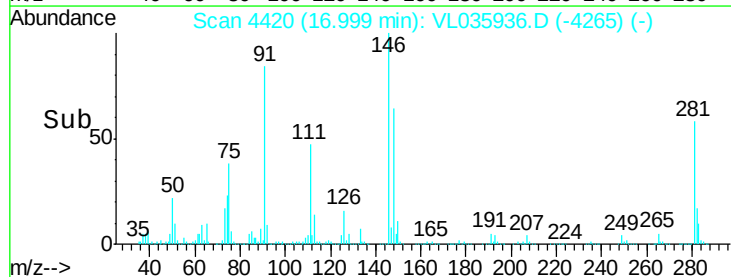
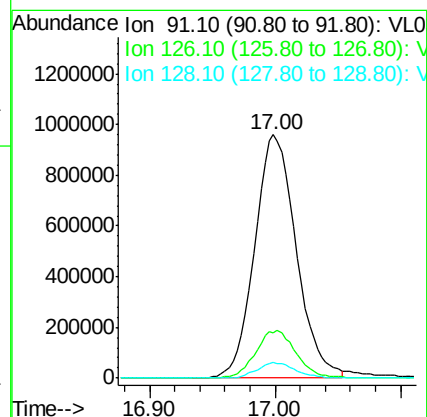
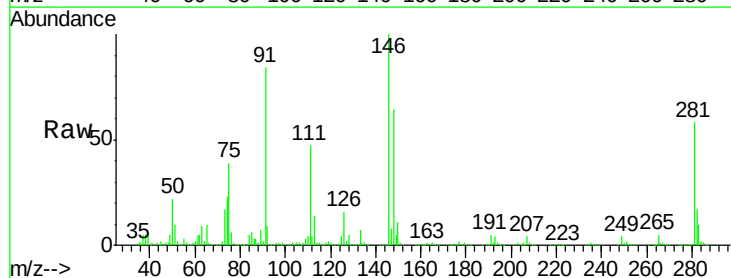
Tgt Ion: 91 Resp: 2204789

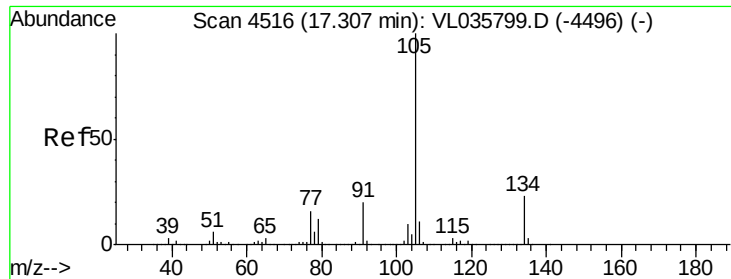
Ion Ratio Lower Upper

91 100

126 19.5 16.0 24.0

128 6.0 5.0 7.4





#67

sec-Butylbenzene

Concen: 5.978 ppbv

RT: 17.30 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 8128512

Ion Ratio Lower Upper

105 100

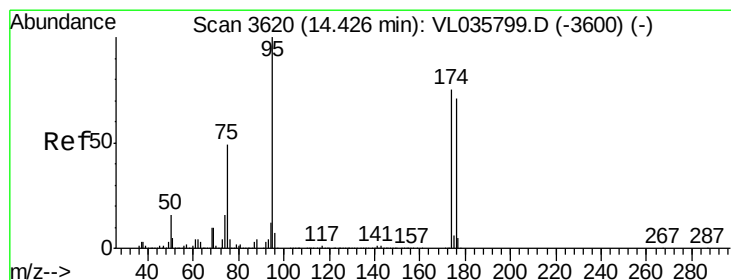
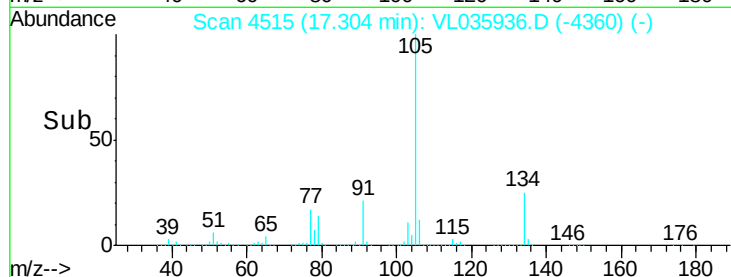
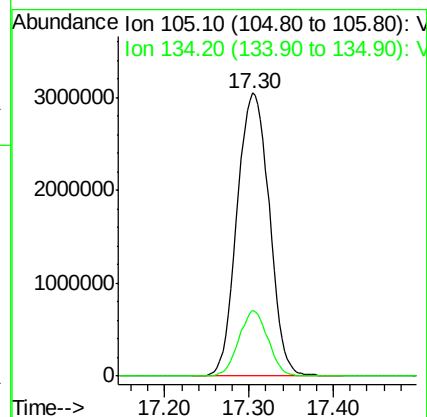
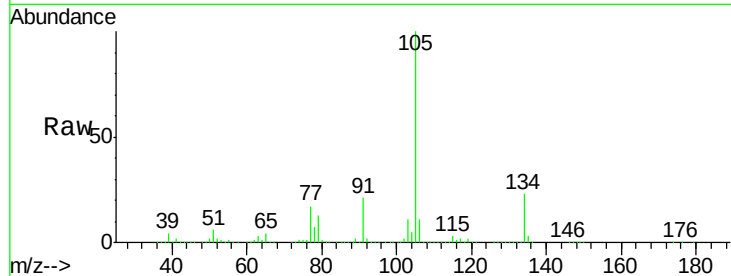
134 21.0 17.0 25.6

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.966 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

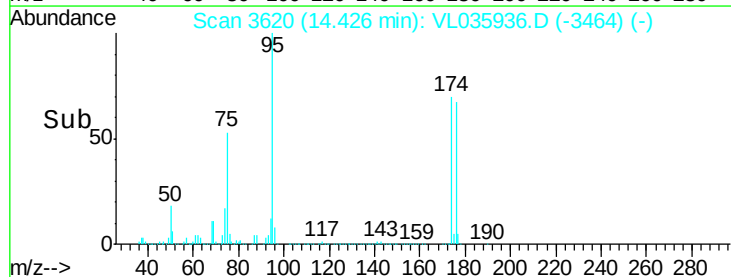
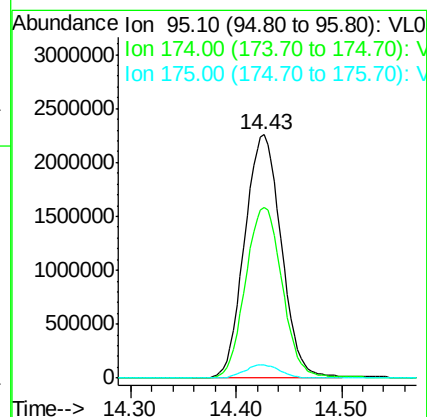
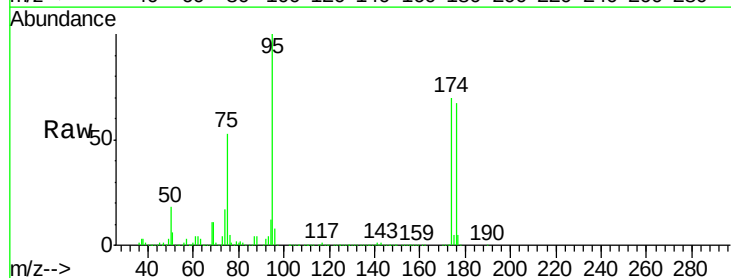
Tgt Ion: 95 Resp: 5481508

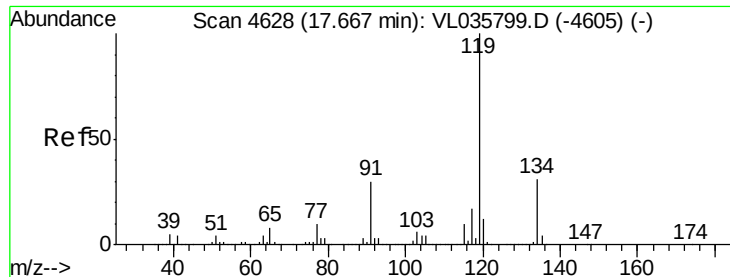
Ion Ratio Lower Upper

95 100

174 70.9 59.8 89.6

175 5.3 4.3 6.5





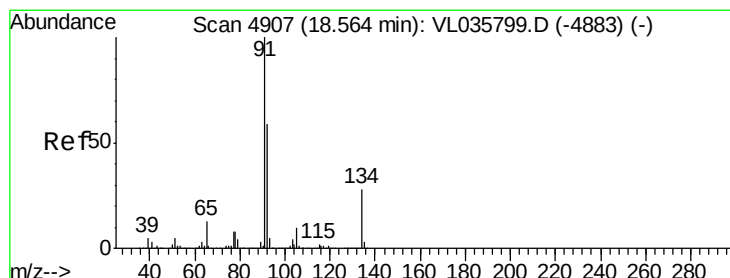
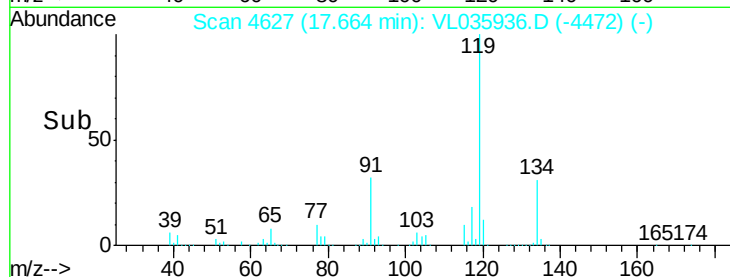
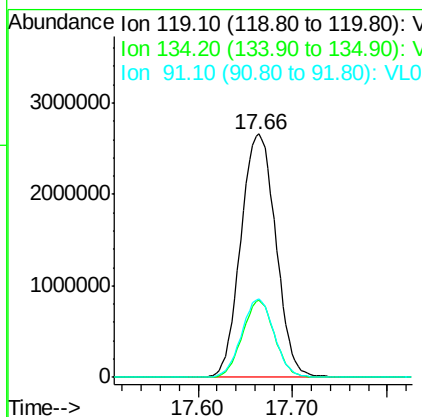
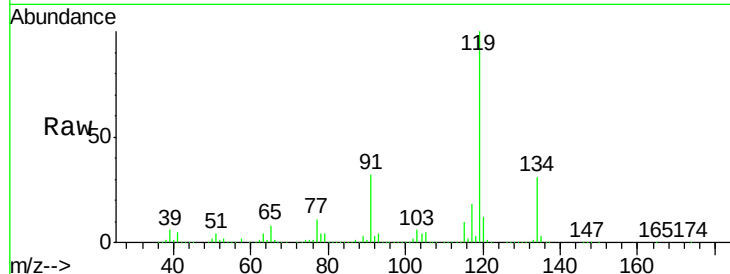
#69
 p-Isopropyltoluene
 Concen: 6.093 ppbv
 RT: 17.66 min Scan# 4627
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 119 Resp: 6836490
 Ion Ratio Lower Upper
 119 100
 134 28.9 23.0 34.6
 91 30.1 22.8 34.2

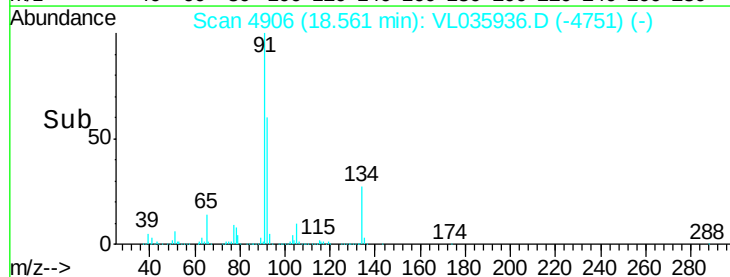
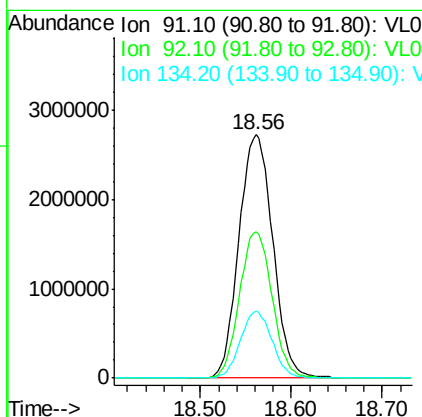
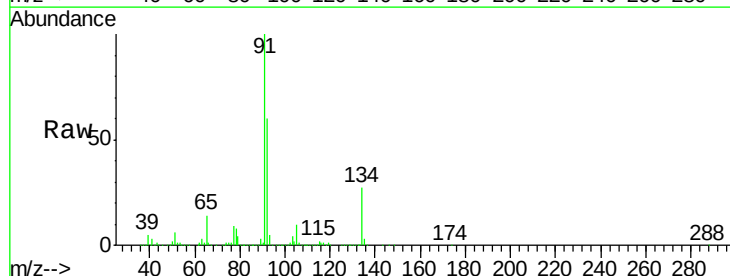
Manual Integrations
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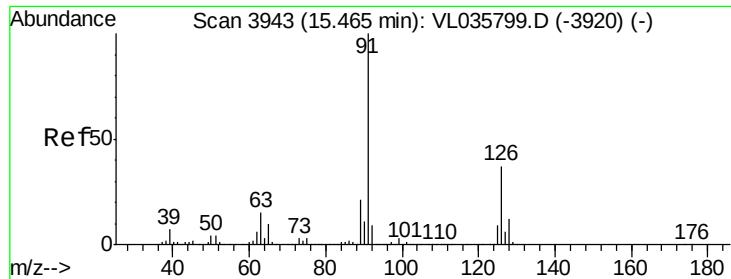
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#70
 n-Butylbenzene
 Concen: 6.529 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion: 91 Resp: 7055169
 Ion Ratio Lower Upper
 91 100
 92 58.0 45.7 68.5
 134 25.8 21.0 31.4





#71

2-Chlorotoluene

Concen: 6.181 ppbv

RT: 15.46 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 5011543

Ion Ratio Lower Upper

91 100

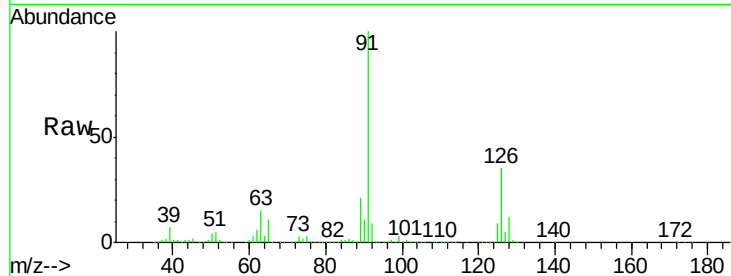
126 34.1 14.3 57.1

Manual Integrations

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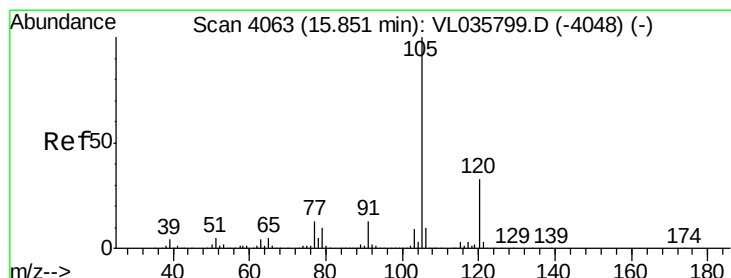
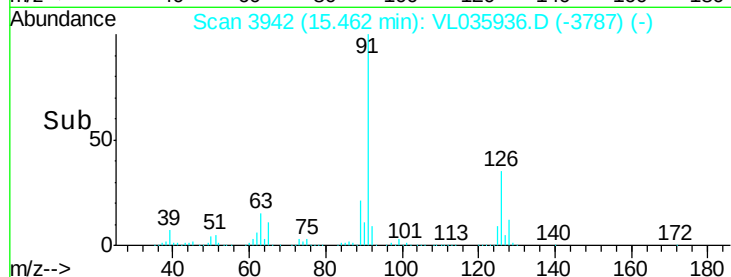
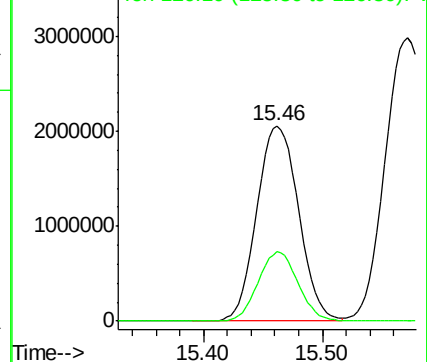
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 6.140 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion: 105 Resp: 5252160

Ion Ratio Lower Upper

105 100

120 32.2 25.9 38.9

91 12.8 9.9 14.9

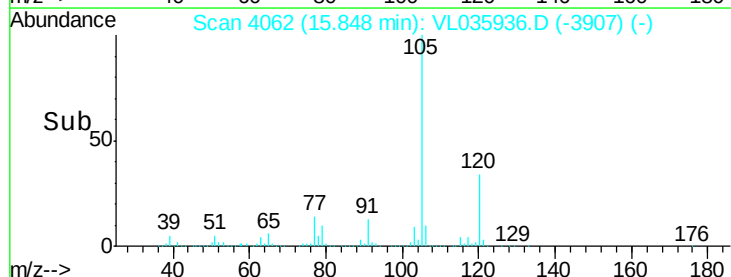
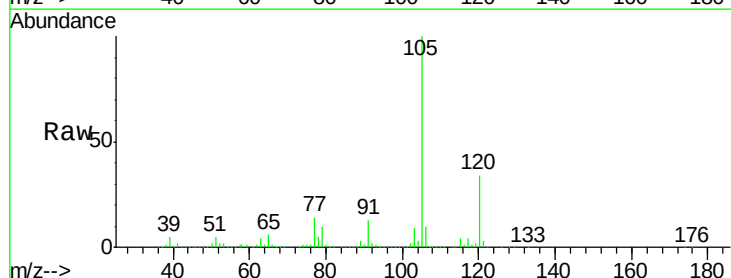
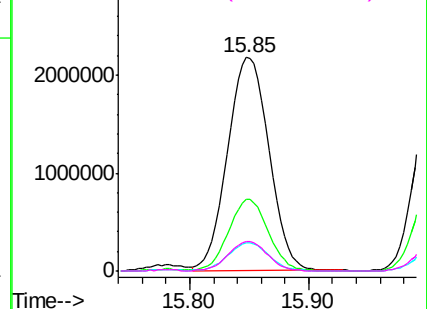
77 13.2 10.2 15.2

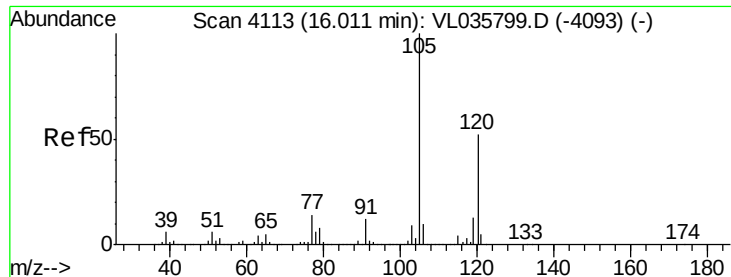
Abundance Ion 105.10 (104.80 to 105.80): V

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: 6.281 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4916463

Ion Ratio Lower Upper

105 100

120 50.5

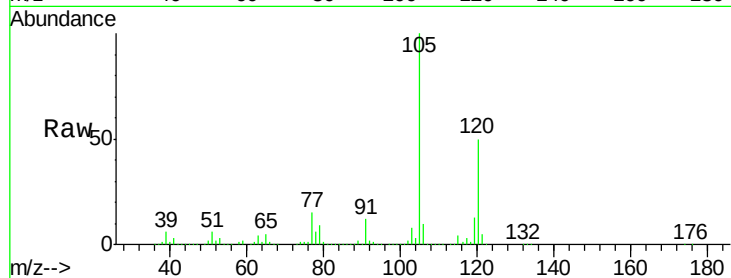
41.4 62.2

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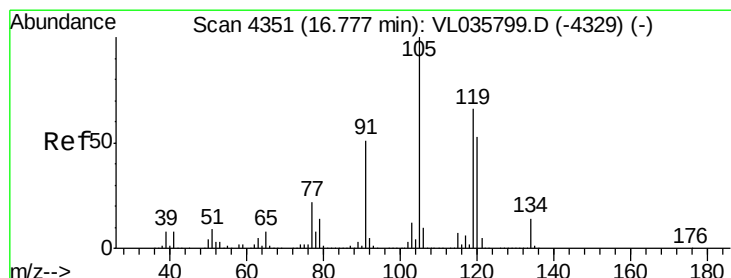
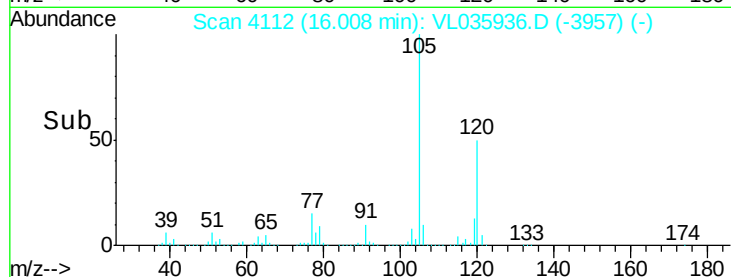
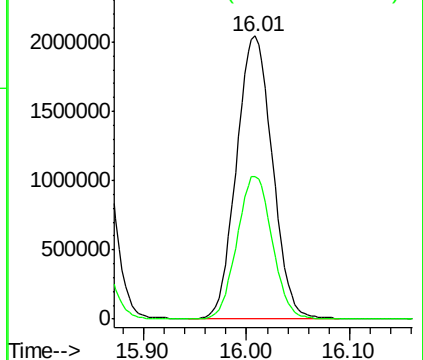
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 6.208 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Tgt Ion:105 Resp: 5207293

Ion Ratio Lower Upper

105 100

120 52.4

42.0 63.0

91 52.1

41.0 61.6

77 22.3

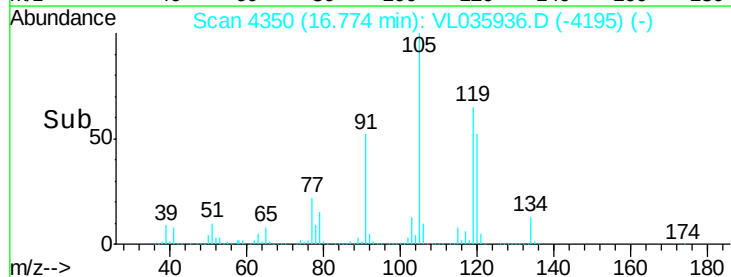
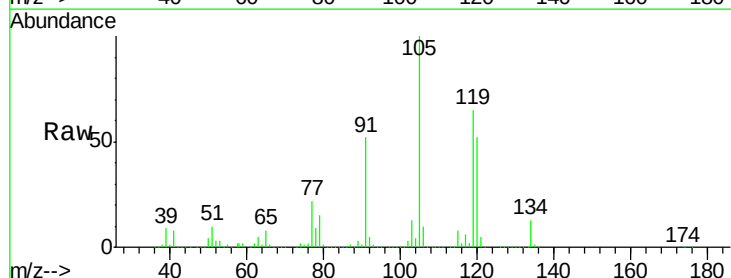
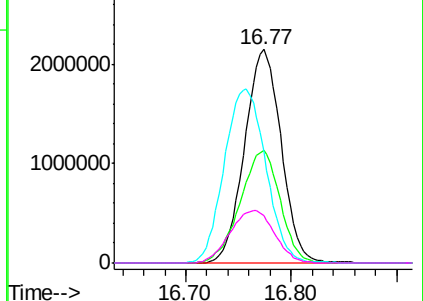
17.3 25.9

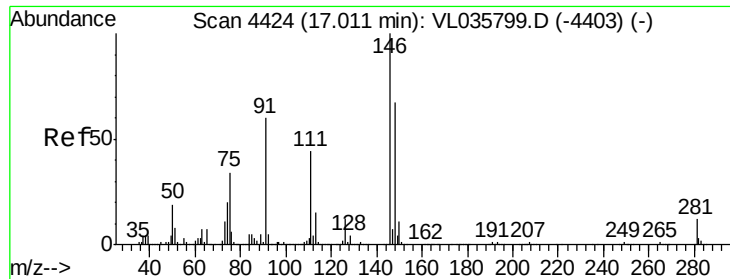
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





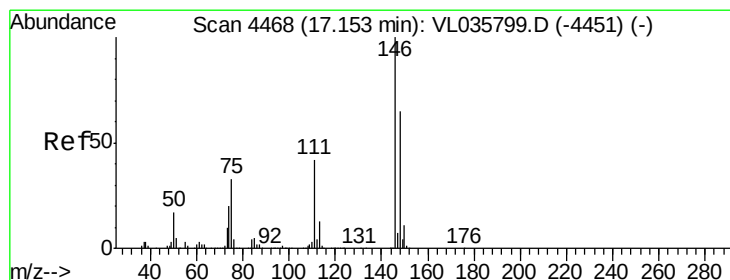
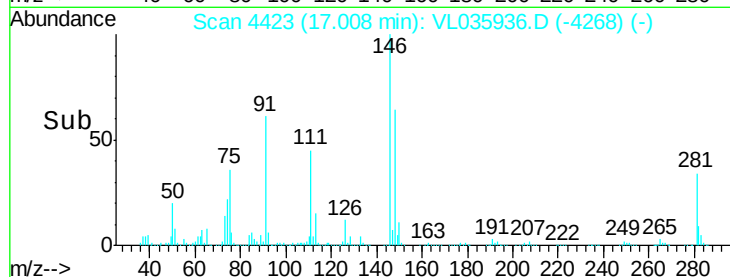
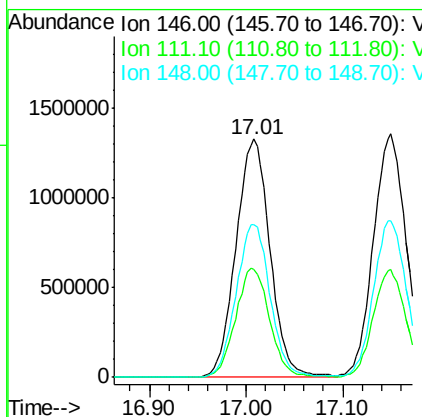
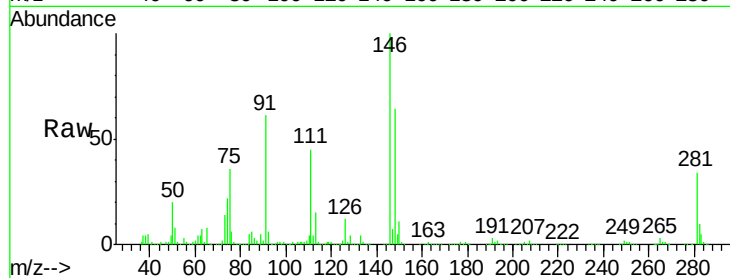
#75
 1,3-Dichlorobenzene
 Concen: 6.088 ppbv
 RT: 17.01 min Scan# 4423
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 3251353
 Ion Ratio Lower Upper
 146 100
 111 45.7 21.8 65.4
 148 64.4 32.5 97.5

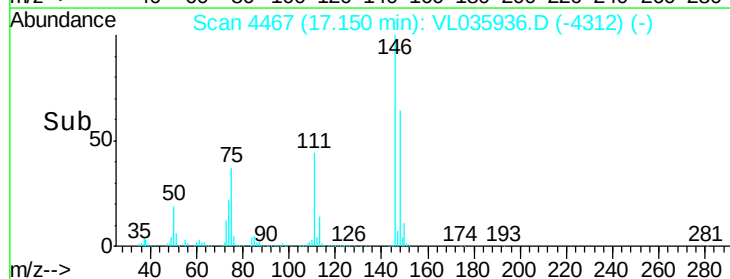
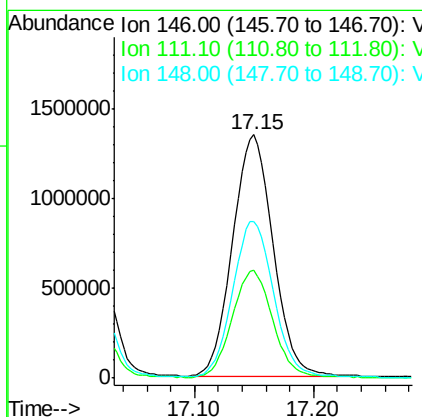
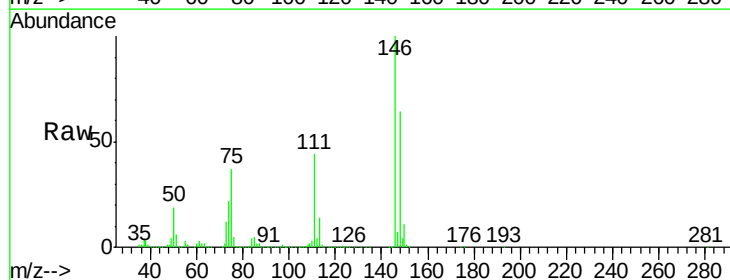
Manual Integrations
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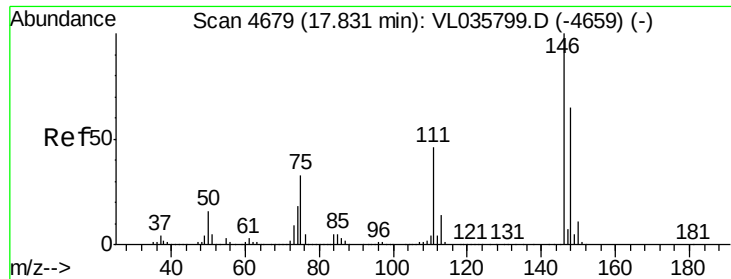
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#76
 1,4-Dichlorobenzene
 Concen: 6.144 ppbv
 RT: 17.15 min Scan# 4467
 Delta R.T. -0.00 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Tgt Ion:146 Resp: 3165287
 Ion Ratio Lower Upper
 146 100
 111 44.9 21.3 63.7
 148 66.2 33.0 99.0





#77

1,2-Dichlorobenzene

Concen: 6.110 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. -0.00 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3180867

Ion Ratio Lower Upper

146 100

111 47.2 22.4 67.0

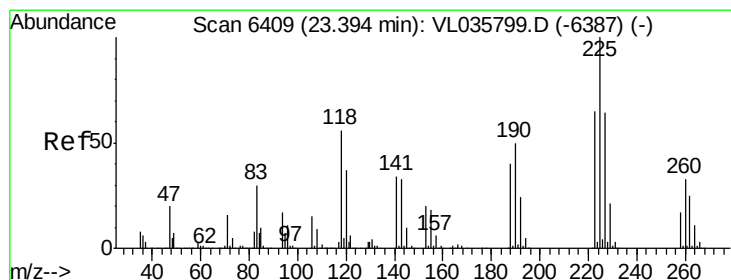
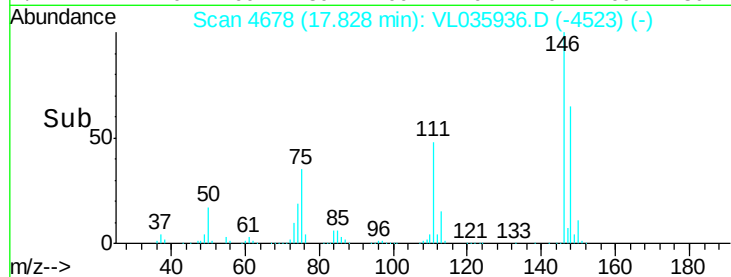
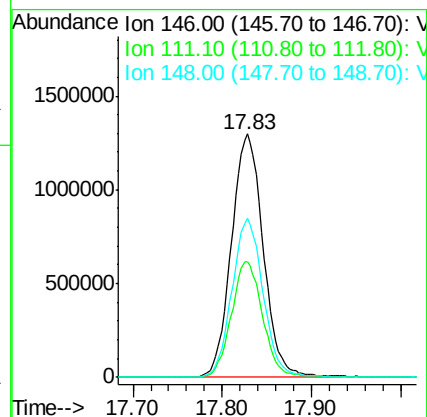
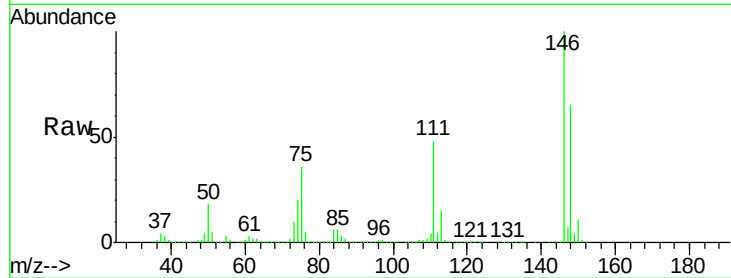
148 64.5 32.5 97.5

Manual Integrations

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11/16/2020 2:31:38 PM



#78

Hexachloro-1,3-Butadiene

Concen: 7.677 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. -0.01 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

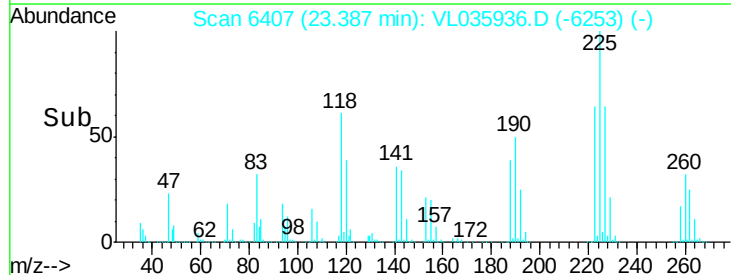
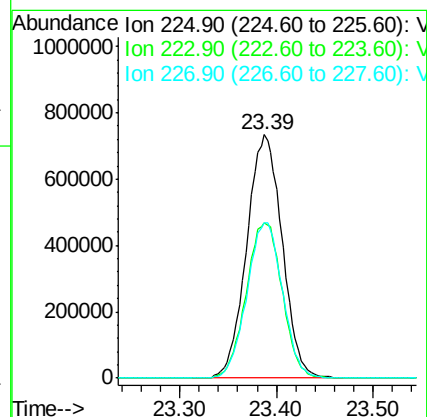
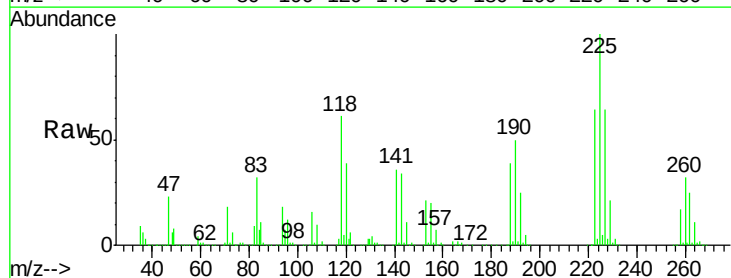
Tgt Ion:225 Resp: 1864875

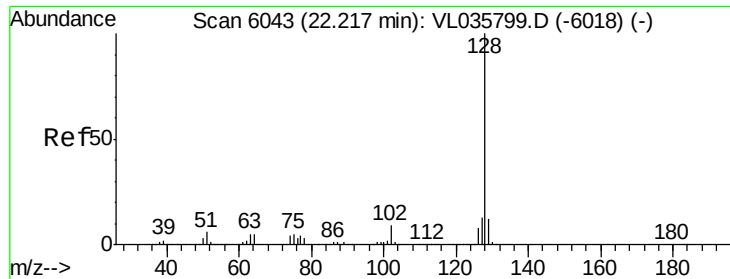
Ion Ratio Lower Upper

225 100

223 65.0 51.0 76.6

227 64.4 51.2 76.8





#79

Naphthalene

Concen: 8.115 ppbv

RT: 22.21 min Scan# 6041

Delta R.T. -0.01 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 4744770

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

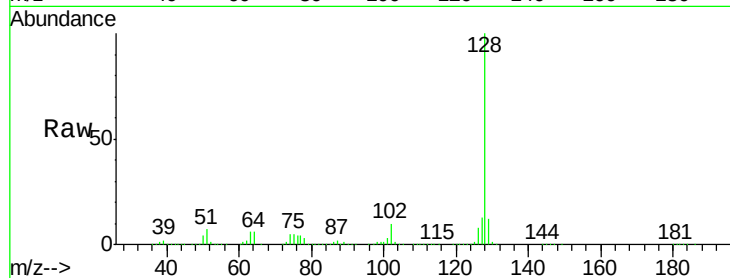
129 11.6 9.2 13.8

Manual Integrations

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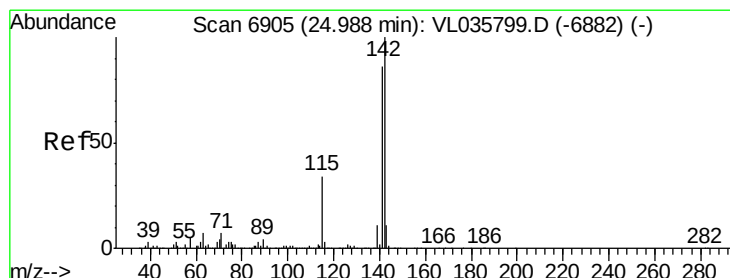
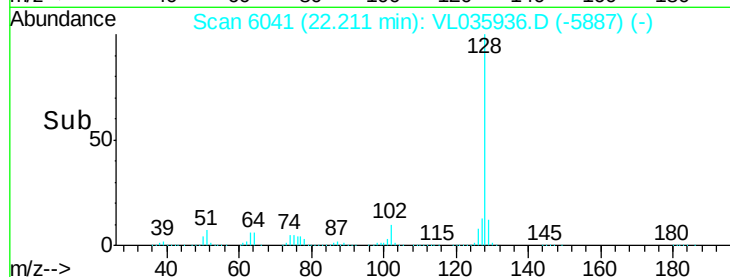
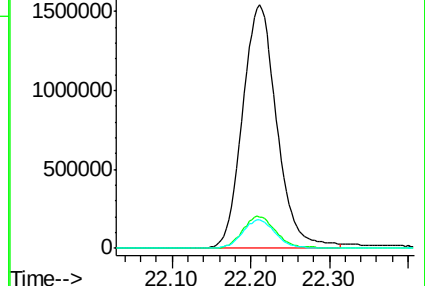
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 12.620 ppbv

RT: 24.98 min Scan# 6903

Delta R.T. -0.01 min

Lab File: VL035936.D

Acq: 13 Nov 2020 8:33

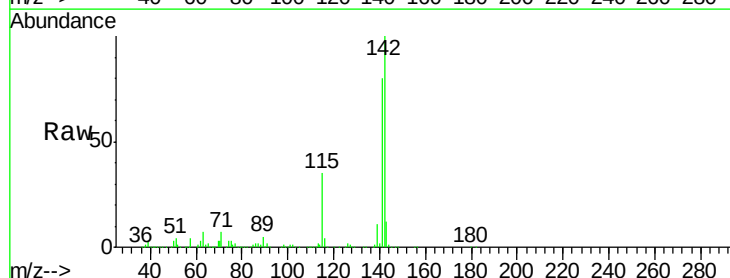
Tgt Ion:142 Resp: 1202474

Ion Ratio Lower Upper

142 100

141 85.0 67.8 101.8

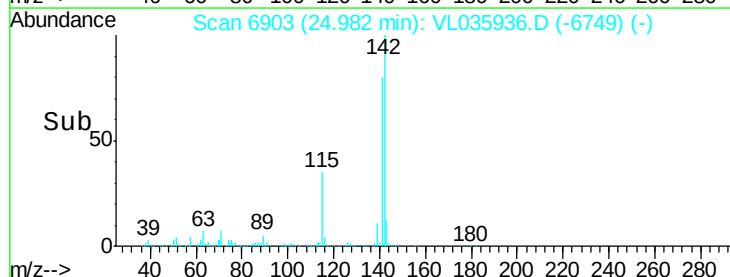
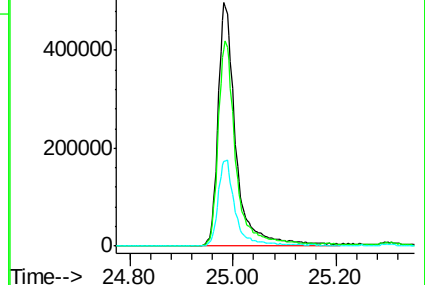
115 34.2 28.1 42.1

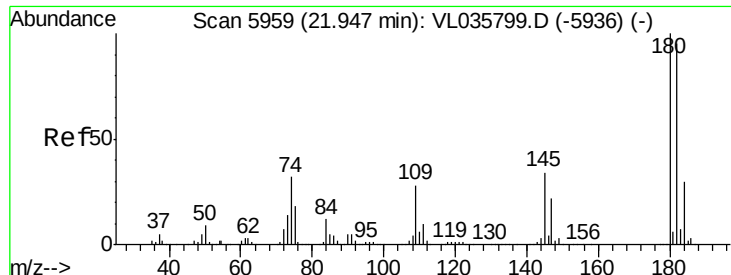


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.311 ppbv
 RT: 21.94 min Scan# 5956
 Delta R.T. -0.01 min
 Lab File: VL035936.D
 Acq: 13 Nov 2020 8:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.6	77.2	115.8
184	31.5	24.7	37.1

Manual Integrations
 APPROVED

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