

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035233.D
 Acq On : 29 Jul 2020 2:44
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 7/30/2020 6:10:17 PM

Quant Time: Jul 29 03:37:25 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 2

QLast Update : Wed Jul 29 03:31:38 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	5.66	49	1475339	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3525553	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	3460548m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2752031	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	1552345	7.650	ppbv 100
3) Chlorodifluoromethane	2.94	51	1411599	8.639	ppbv 100
4) Chloromethane	3.10	50	801703	8.694	ppbv 100
5) Vinyl Chloride	3.22	62	836337	8.478	ppbv 100
6) Bromomethane	3.44	94	524129	9.358	ppbv 100
7) Chloroethane	3.52	64	318709	9.133	ppbv 100
8) Dichlorotetrafluoroethane	3.15	85	1947715	8.556	ppbv 100
9) Propene	2.97	41	547713	8.953	ppbv 100
10) Heptane	8.14	43	1629141	10.251	ppbv 100
11) Trichlorofluoromethane	3.92	101	2096886	8.919	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1484130	8.985	ppbv 100
13) Ethanol	3.57	45	144834	7.209	ppbv 97
14) Bromoethene	3.71	108	636126	9.377	ppbv 100
15) Acetone	3.82	43	1552831	7.742	ppbv 100
16) 1,3-Butadiene	3.29	39	731397	9.518	ppbv 100
17) tert-Butyl alcohol	4.27	59	1702485	9.507	ppbv 100
18) 1,1-Dichloroethene	4.26	96	691812	9.449	ppbv 100
19) Isopropyl Alcohol	3.94	45	1112397	9.099	ppbv 100
20) Methylene Chloride	4.32	84	619962	7.070	ppbv 100
21) Allyl Chloride	4.39	41	1078133	9.232	ppbv 100
22) trans-1,2-Dichloroethene	4.87	96	666499	9.168	ppbv 100
23) Vinyl Acetate	5.06	43	1971982	9.197	ppbv 100
24) 1,1-Dichloroethane	5.00	63	1671321	8.977	ppbv 100
25) Ethyl Acetate	5.67	43	2854872	9.189	ppbv 100
26) Hexane	5.68	57	1292251	9.412	ppbv 100
27) Carbon Disulfide	4.53	76	1784416	9.345	ppbv 100
28) Methyl tert-Butyl Ether	5.01	73	1967000	9.439	ppbv 100
29) Chloroform	5.75	83	2087789	9.051	ppbv 100
30) Cyclohexane	7.14	84	1081665	10.666	ppbv 100
31) cis-1,2-Dichloroethene	5.54	61	1243213	9.635	ppbv 100
32) 1,1,1-Trichloroethane	6.52	97	2071533	8.982	ppbv 100
34) 2-Butanone	5.23	43	1738117	9.244	ppbv 100
35) Carbon Tetrachloride	7.03	117	2180201	9.467	ppbv 100
36) Benzene	6.90	78	2495665	9.771	ppbv 100
37) 1,2-Dichloroethane	6.31	62	1624327	9.418	ppbv 100
38) Trichloroethene	7.85	130	1063900	10.159	ppbv 100
39) 1,2-Dichloropropane	7.63	63	994830	9.736	ppbv 100
40) 1,4-Dioxane	7.84	88	412868	10.136	ppbv 100
41) Tetrahydrofuran	6.04	42	939830	10.043	ppbv 100
42) Bromodichloromethane	7.81	83	2270189	9.857	ppbv 100
43) Methyl Methacrylate	8.03	69	1185223	10.903	ppbv 100

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 ClientSampleId :
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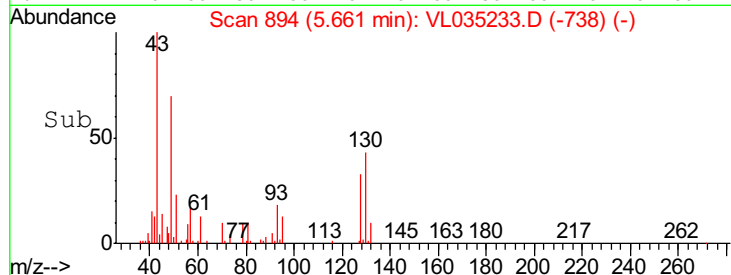
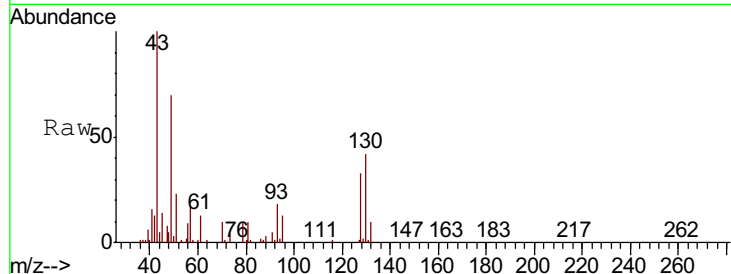
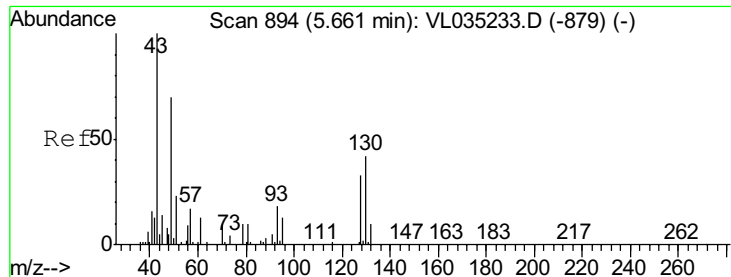
Manual Integrations
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Quant Time: Jul 29 03:37:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 2020
 QLast Update : Wed Jul 29 03:31:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
44) 2,2,4-Trimethylpentane	7.88	57	4402479	9.945	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1311010	11.529	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1554672	11.491	ppbv	100
47) 1,1,2-Trichloroethane	9.50	97	1121333	9.995	ppbv	100
48) Dibromochloromethane	10.34	129	1912737	10.492	ppbv	100
49) Bromoform	13.08	173	1762244m	10.948	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2770667	10.234	ppbv	100
51) 2-Hexanone	10.16	43	2266986	10.936	ppbv	100
52) Tetrachloroethene	11.26	164	957241	9.959	ppbv	100
53) Toluene	9.83	91	3004541	11.096	ppbv	100
54) 1,2-Dibromoethane	10.64	107	1702966	10.237	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.17	131	1490774	9.590	ppbv	100
57) Chlorobenzene	12.18	112	2452897	9.469	ppbv	100
58) Ethyl Benzene	12.75	91	4180253	10.803	ppbv	100
59) m/p-Xylene	13.03	91	7102203m	20.532	ppbv	100
60) o-Xylene	13.73	91	3572742	10.352	ppbv	100
61) Styrene	13.57	104	2505505	11.756	ppbv	100
62) Isopropylbenzene	14.71	105	5228181	10.218	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.72	83	2648267	9.186	ppbv	100
64) n-propylbenzene	15.61	120	1408991	10.637	ppbv	100
65) tert-Butylbenzene	16.79	119	4672531	10.172	ppbv	100
66) Benzyl Chloride	17.04	91	1966662	11.886	ppbv	100
67) sec-Butylbenzene	17.34	105	6687821	9.995	ppbv	100
69) p-Isopropyltoluene	17.70	119	5669477	10.731	ppbv	100
70) n-Butylbenzene	18.60	91	5952104	10.622	ppbv	100
71) 2-Chlorotoluene	15.50	91	4085759	10.548	ppbv	100
72) 4-Ethyltoluene	15.89	105	4261562	10.923	ppbv	99
73) 1,3,5-Trimethylbenzene	16.04	105	3983780	10.613	ppbv	100
74) 1,2,4-Trimethylbenzene	16.81	105	4270116	10.244	ppbv	100
75) 1,3-Dichlorobenzene	17.05	146	2520482	9.512	ppbv	100
76) 1,4-Dichlorobenzene	17.19	146	2517092	10.233	ppbv	100
77) 1,2-Dichlorobenzene	17.87	146	2435482	10.189	ppbv	100
78) Hexachloro-1,3-Butadiene	23.43	225	1716760	9.168	ppbv	100
79) Naphthalene	22.27	128	3848357	13.887	ppbv	100
80) Naphthalene, 2-methyl-	25.02	142	1379510	20.895	ppbv	100
81) 1,2,4-Trichlorobenzene	22.00	180	2148948	12.290	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Tot Ion: 49 Resp: 1475339

Ion Ratio Lower Upper

49 100

128 47.9 24.0 72.0

130 61.3 30.7 92.1

Instrument :

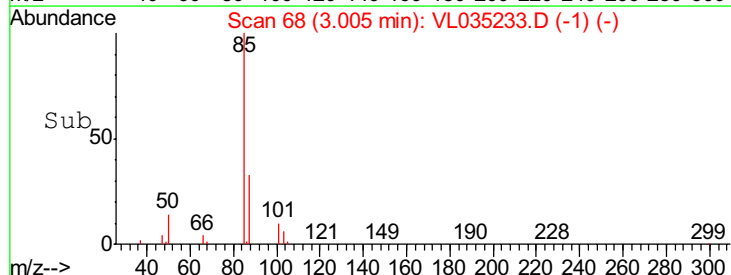
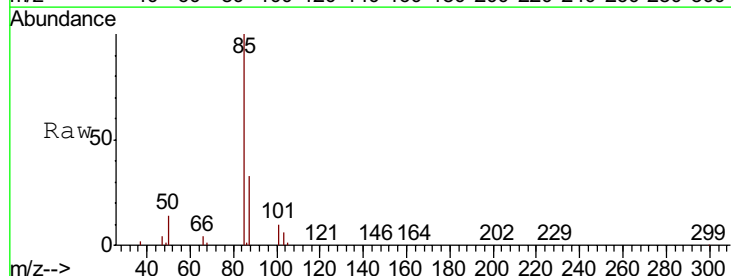
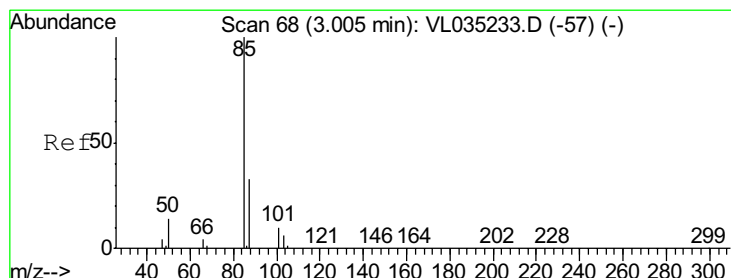
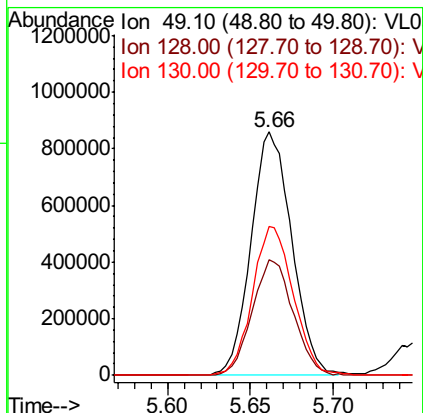
MSVOA_L

ClientSampleId :

VSTICCC010

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 7.650 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL035233.D

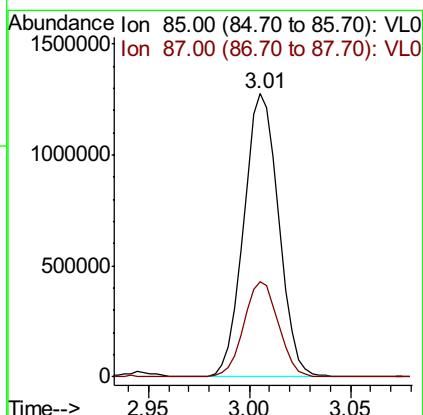
Acq: 29 Jul 2020 2:44

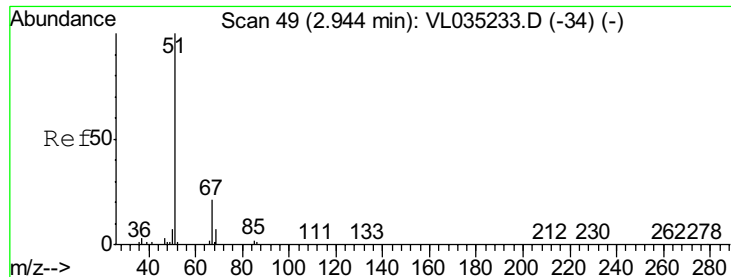
Tgt Ion: 85 Resp: 1552345

Ion Ratio Lower Upper

85 100

87 33.4 26.7 40.1





#3

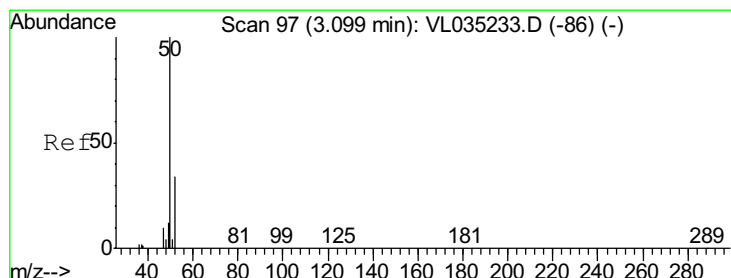
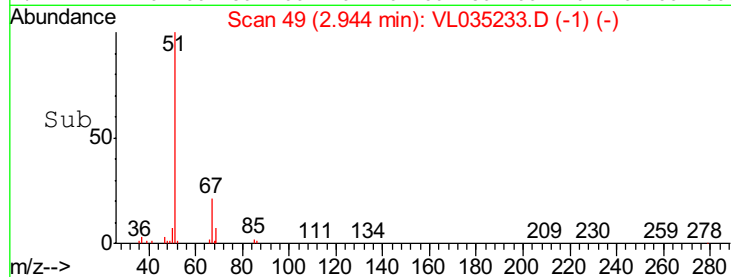
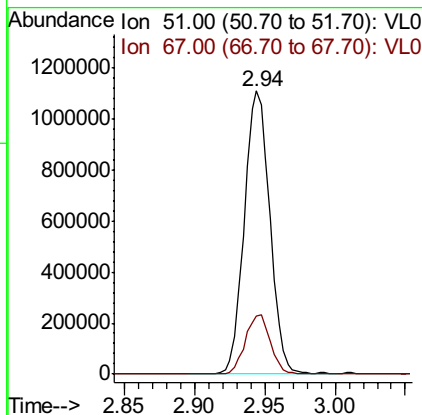
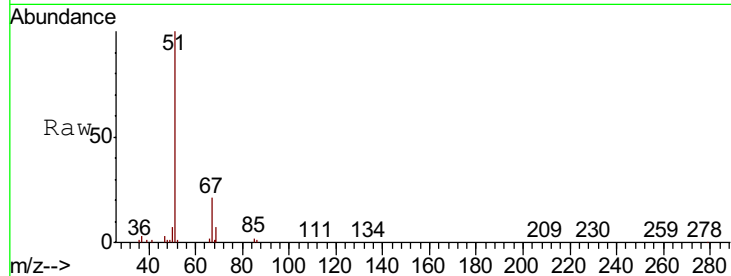
Chlorodifluoromethane
 Concen: 8.639 ppbv
 RT: 2.94 min Scan# 49
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion: 51 Resp: 1411599
 Ion Ratio Lower Upper
 51 100
 67 20.8 16.6 25.0

Manual Integrations
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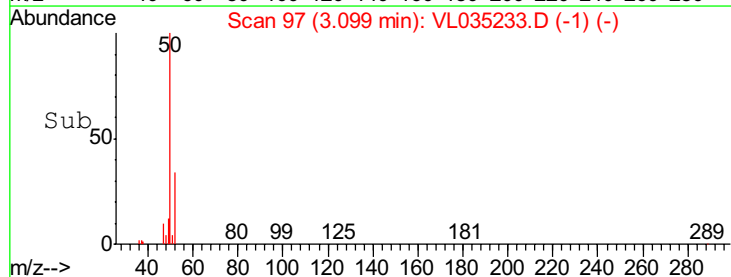
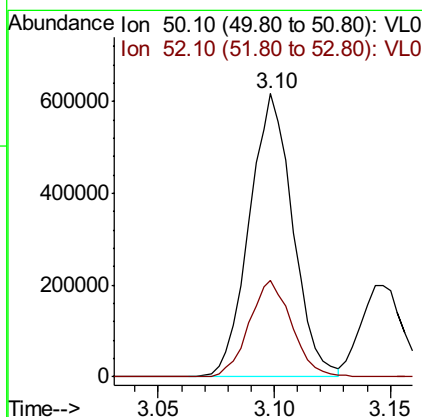
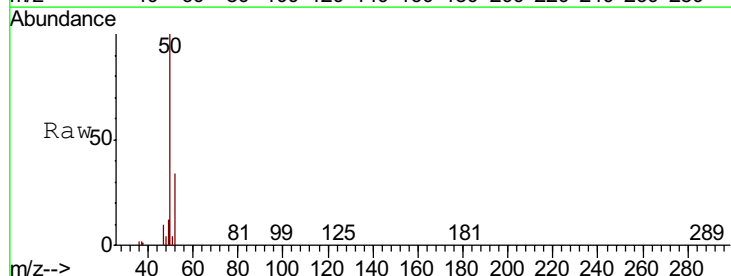
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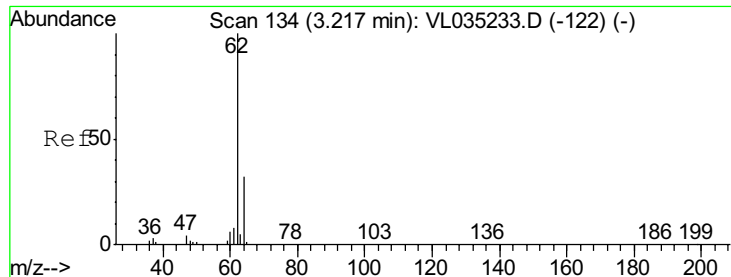


#4

Chloromethane
 Concen: 8.694 ppbv
 RT: 3.10 min Scan# 97
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion: 50 Resp: 801703
 Ion Ratio Lower Upper
 50 100
 52 33.9 27.1 40.7





#5

Vinyl Chloride

Concen: 8.478 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 62 Resp: 836337

Ion Ratio Lower Upper

62 100

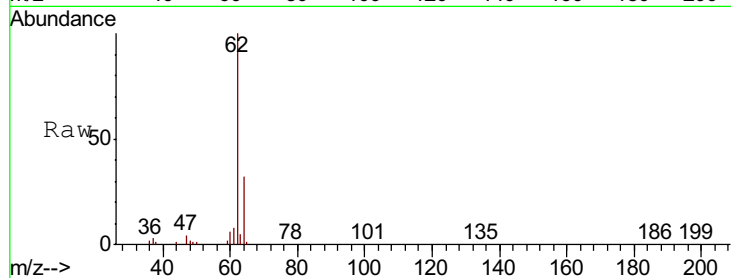
64 32.2 25.8 38.6

Manual Integrations

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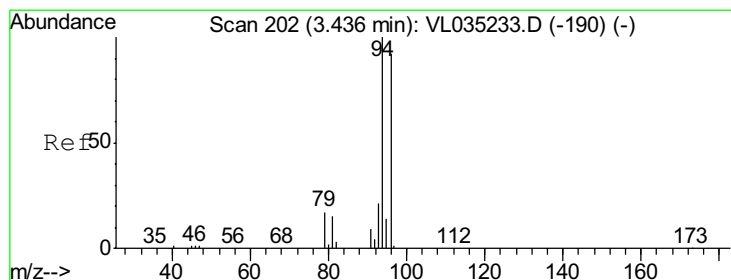
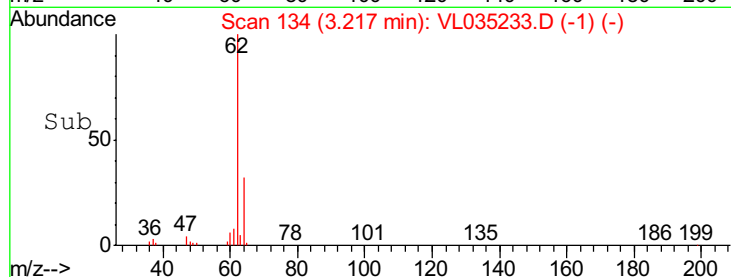
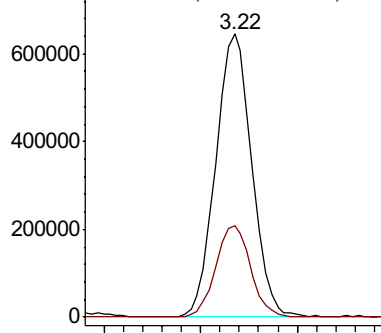
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.358 ppbv

RT: 3.44 min Scan# 202

Delta R.T. 0.00 min

Lab File: VL035233.D

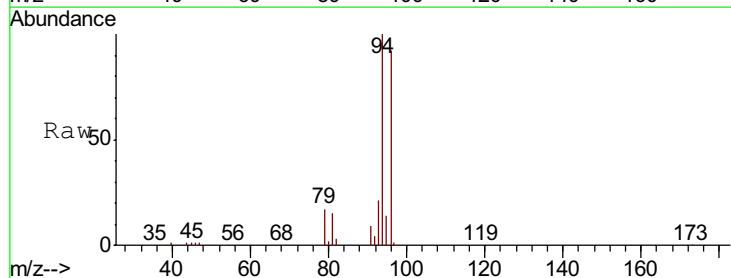
Acq: 29 Jul 2020 2:44

Tgt Ion: 94 Resp: 524129

Ion Ratio Lower Upper

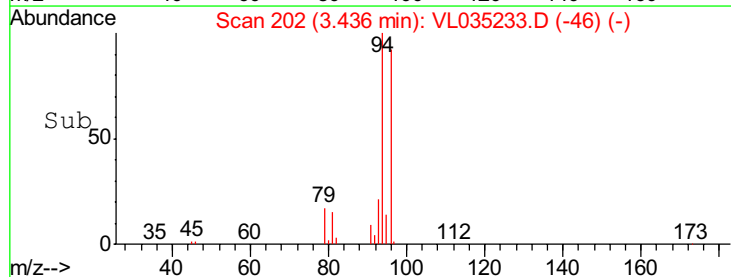
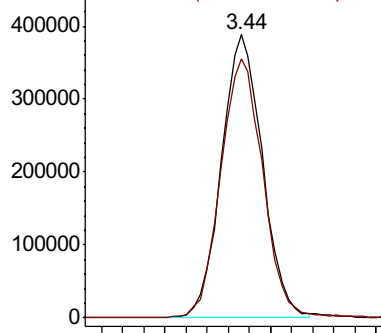
94 100

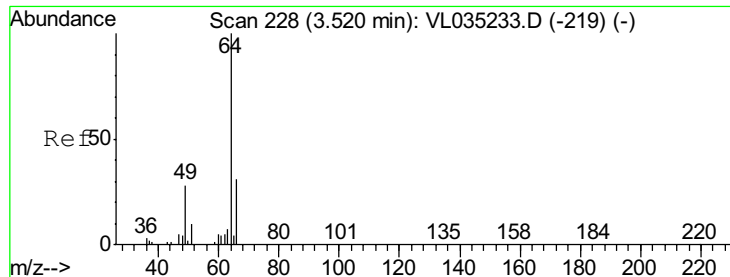
96 91.5 73.2 109.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.133 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 64 Resp: 318709

Ion Ratio Lower Upper

64 100

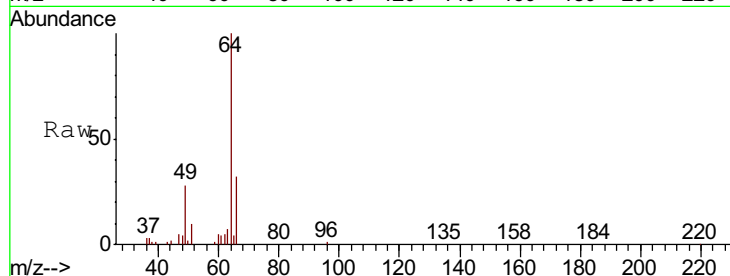
66 32.0 25.6 38.4

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

250000

200000

150000

100000

50000

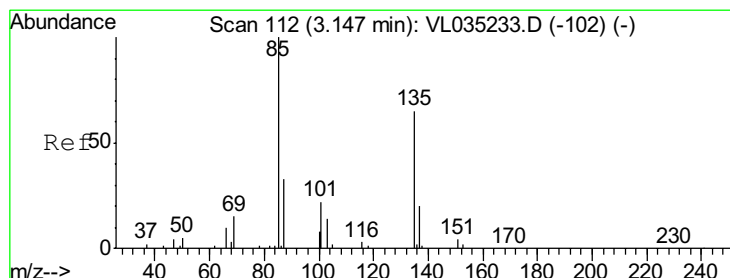
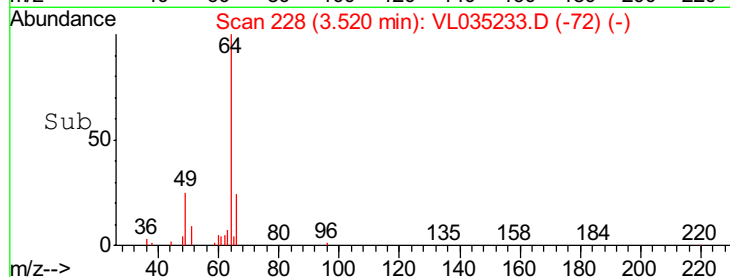
0

3.50

3.52

3.55

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.556 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL035233.D

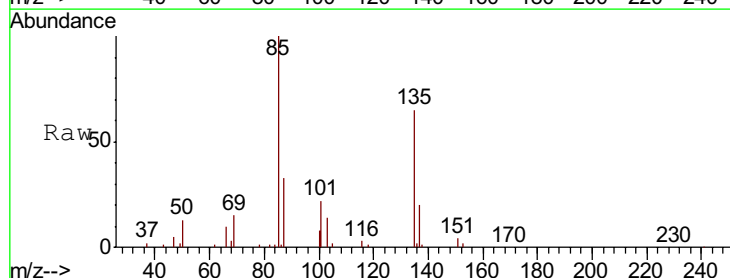
Acq: 29 Jul 2020 2:44

Tgt Ion: 85 Resp: 1947715

Ion Ratio Lower Upper

85 100

135 64.2 51.4 77.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

1000000

500000

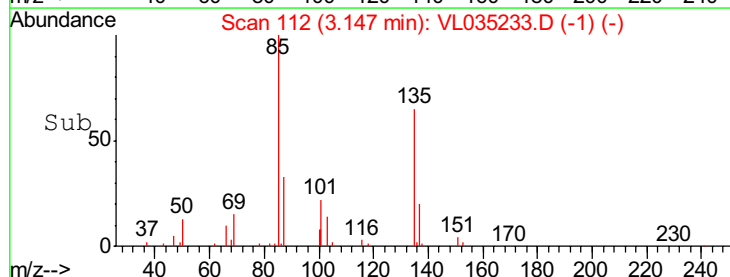
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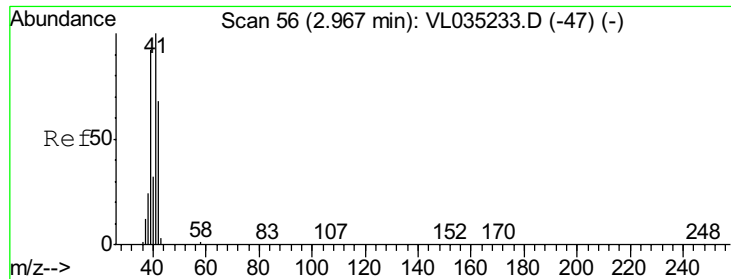
3.10

3.15

3.20

Time-->





#9

Propene

Concen: 8.953 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampled :

VSTICCC010

Tot Ion: 41 Resp: 547713

Ion Ratio Lower Upper

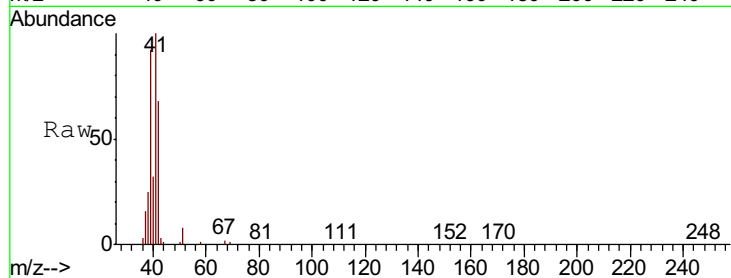
41 100

42 68.8 55.0 82.6

Manual Integrations
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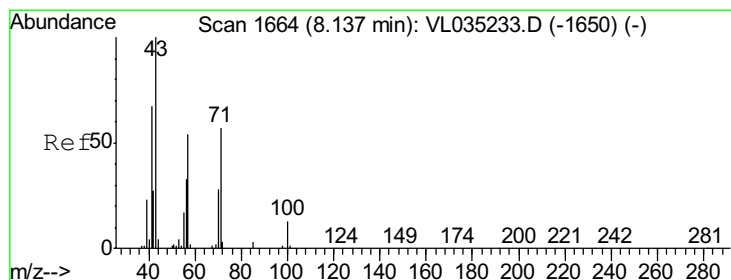
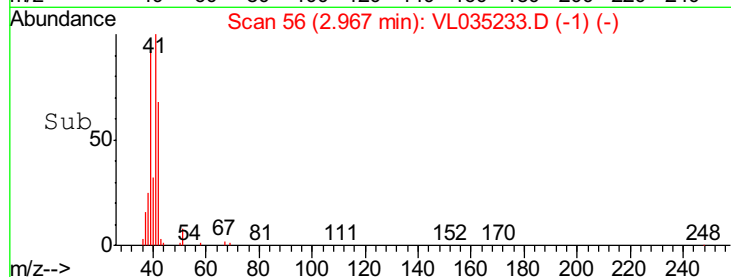
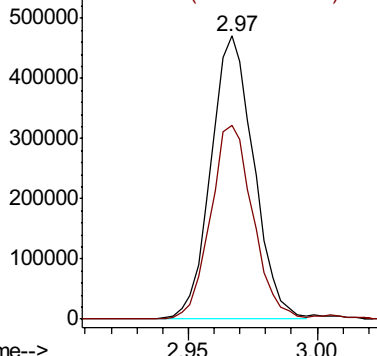
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.251 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL035233.D

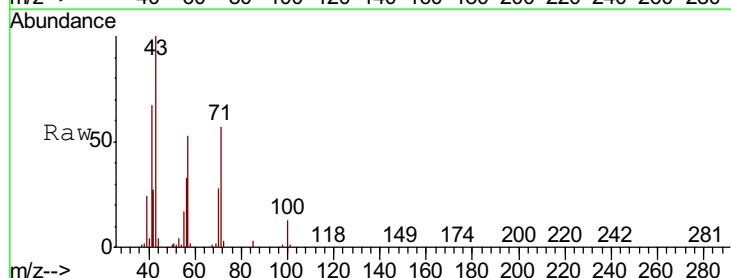
Acq: 29 Jul 2020 2:44

Tgt Ion: 43 Resp: 1629141

Ion Ratio Lower Upper

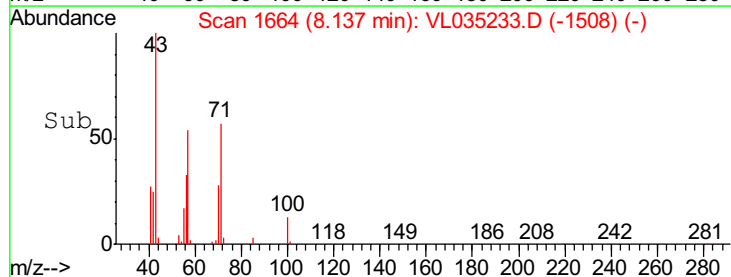
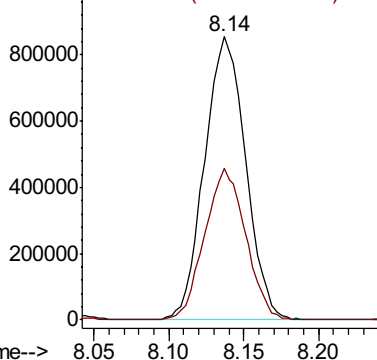
43 100

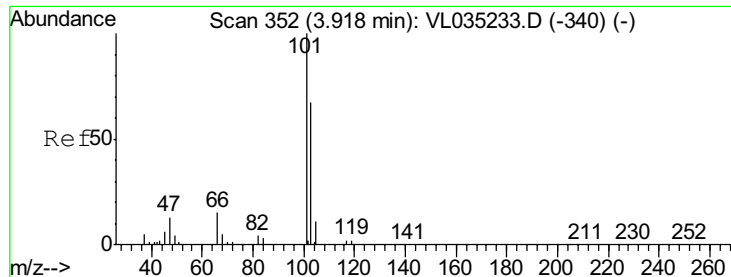
57 53.7 43.0 64.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





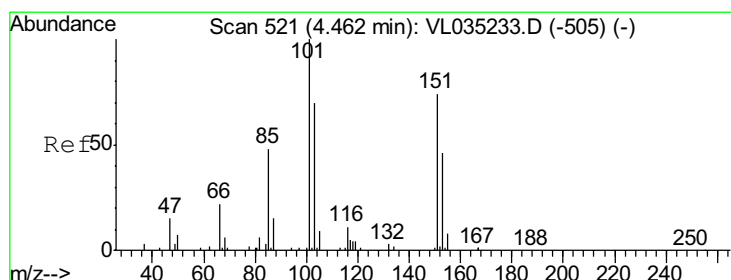
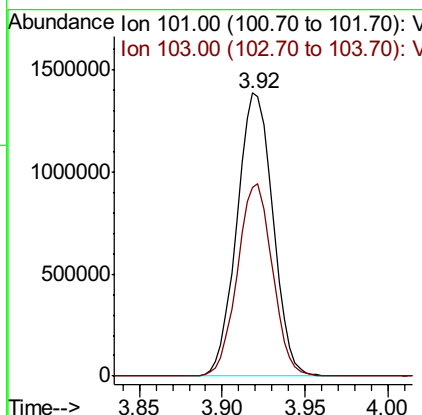
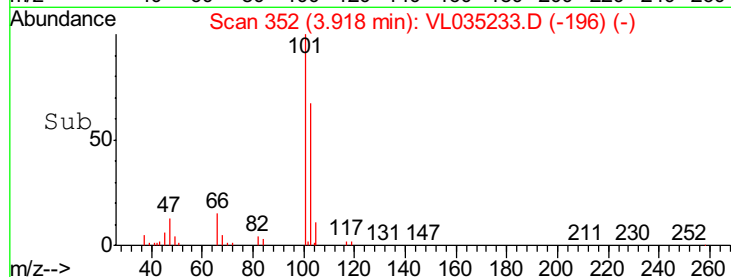
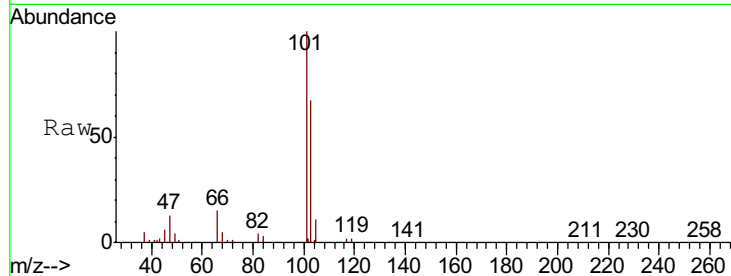
#11
 Trichlorofluoromethane
 Concen: 8.919 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion:101 Resp: 2096886
 Ion Ratio Lower Upper
 101 100
 103 66.7 53.4 80.0

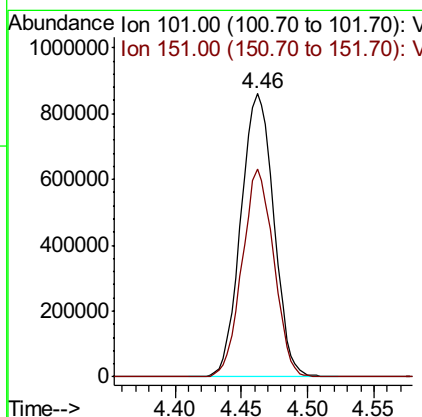
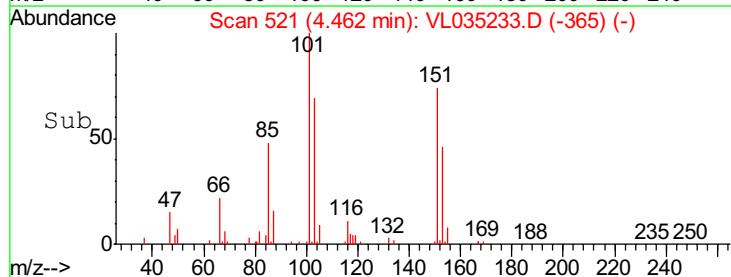
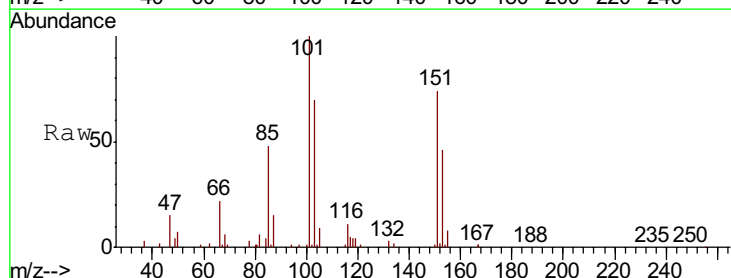
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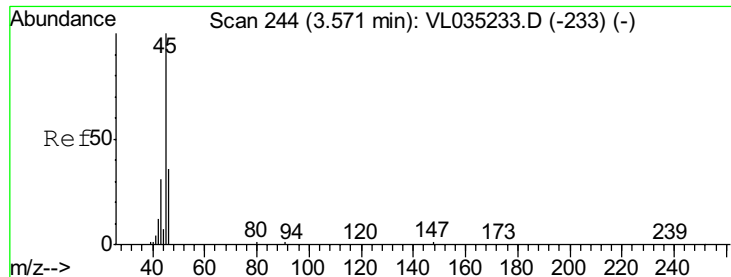
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.985 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion:101 Resp: 1484130
 Ion Ratio Lower Upper
 101 100
 151 70.8 56.6 85.0





#13

Ethanol

Concen: 7.209 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 45 Resp: 144834

Ion Ratio Lower Upper

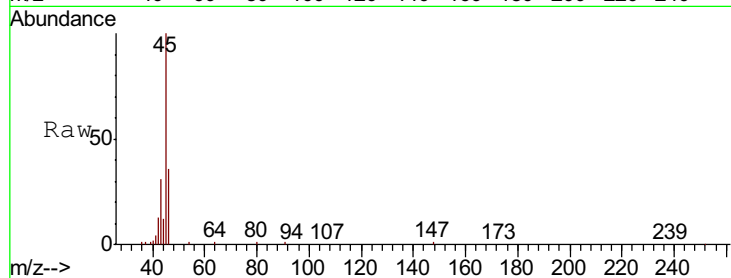
45 100

46 37.9 15.8 63.4

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.57

80000

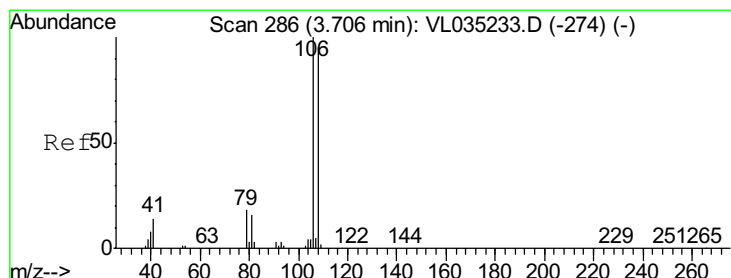
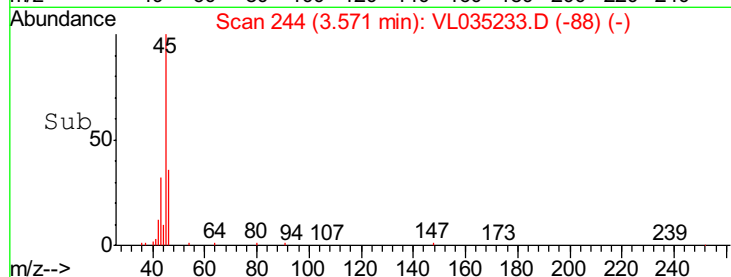
60000

40000

20000

0

Time--> 3.50 3.55 3.60



#14

Bromoethene

Concen: 9.377 ppbv

RT: 3.71 min Scan# 286

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

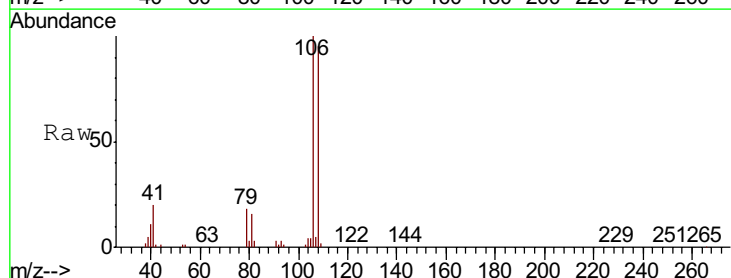
Tgt Ion: 108 Resp: 636126

Ion Ratio Lower Upper

108 100

106 106.1 85.0 127.6

79 19.0 15.4 23.2



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

3.71

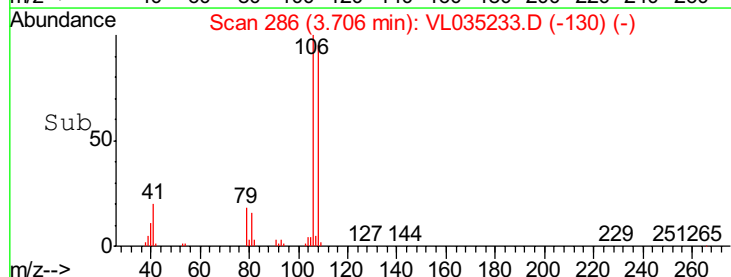
600000

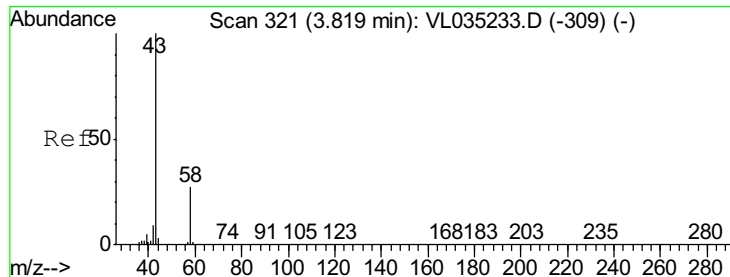
400000

200000

0

Time--> 3.65 3.70 3.75





#15

Acetone

Concen: 7.742 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Tot Ion: 43 Resp: 1552831

Ion Ratio Lower Upper

43 100

58 27.2 21.8 32.6

Instrument :

MSVOA_L

ClientSampleId :

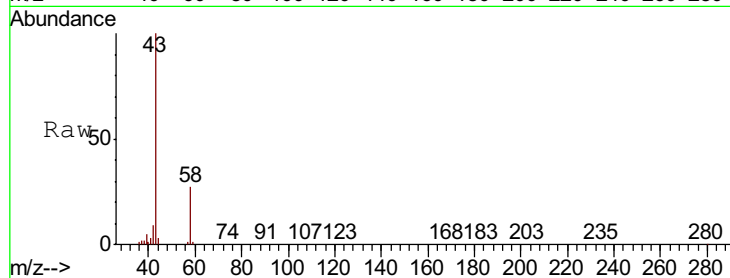
VSTICCC010

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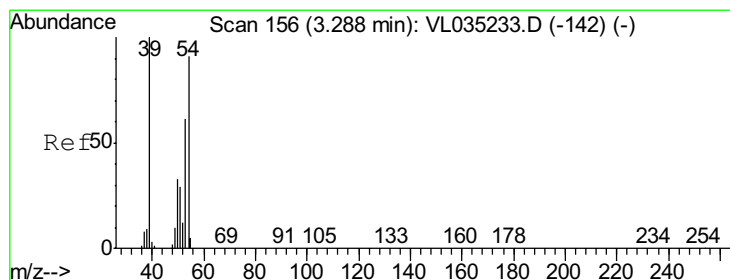
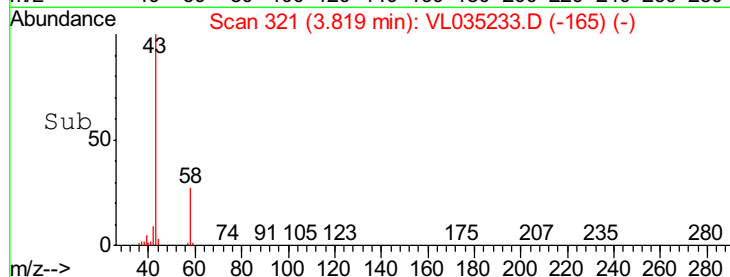
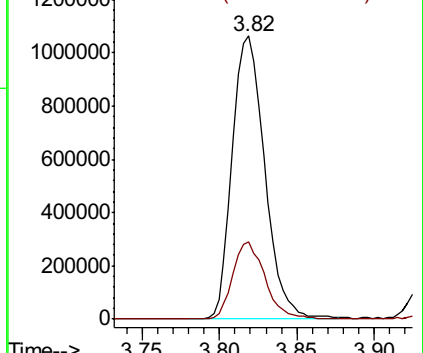
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.518 ppbv

RT: 3.29 min Scan# 156

Delta R.T. 0.00 min

Lab File: VL035233.D

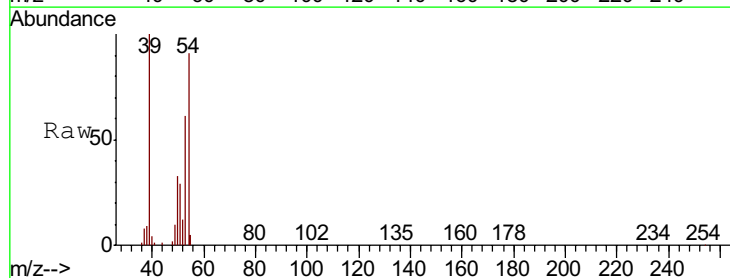
Acq: 29 Jul 2020 2:44

Tgt Ion: 39 Resp: 731397

Ion Ratio Lower Upper

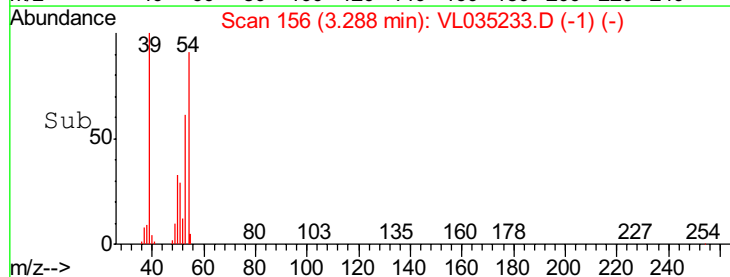
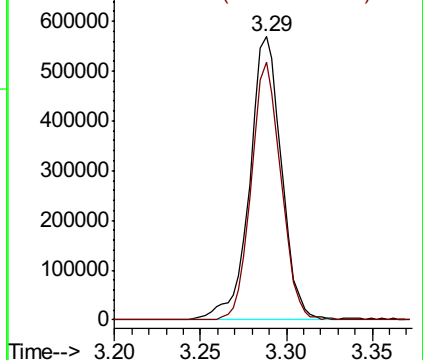
39 100

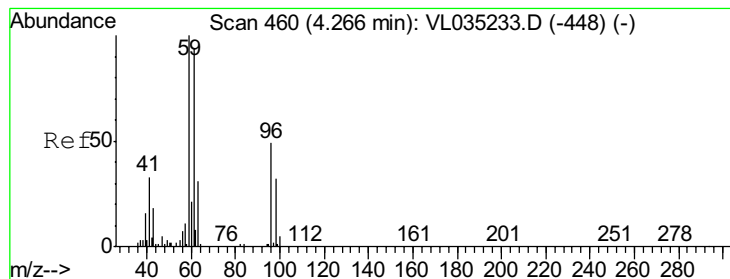
54 85.2 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

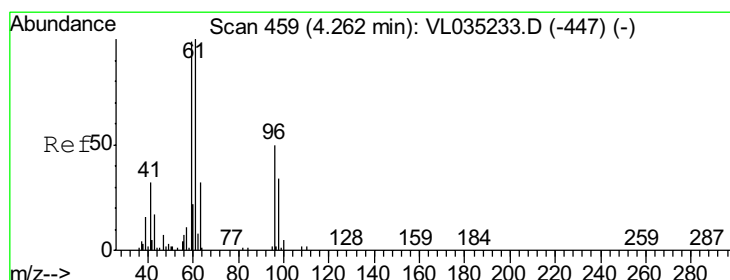
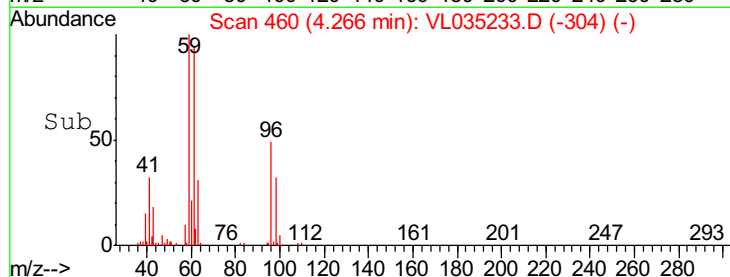
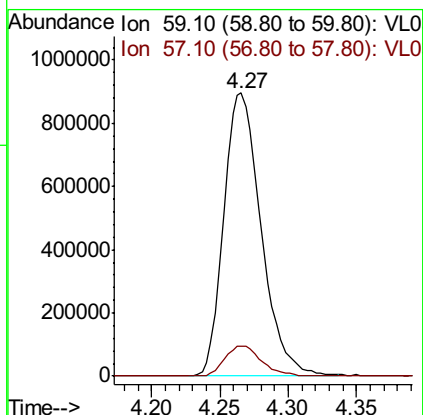
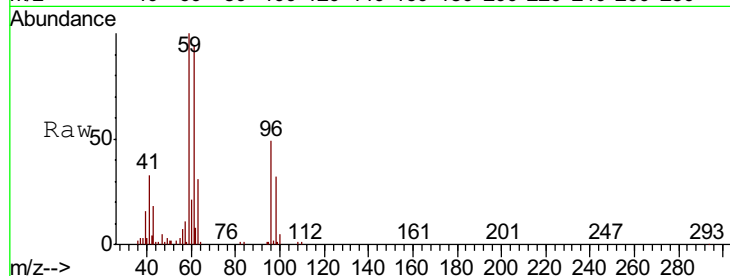
tert-Butyl alcohol
Concen: 9.507 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 59 Resp: 1702485
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8

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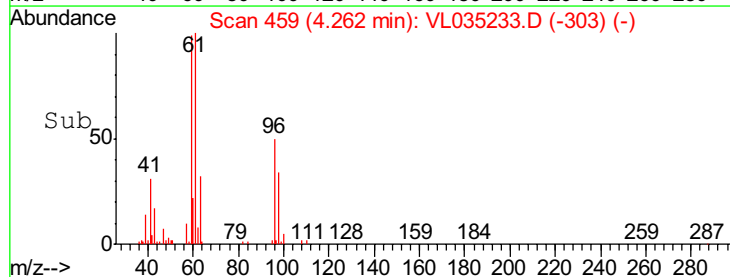
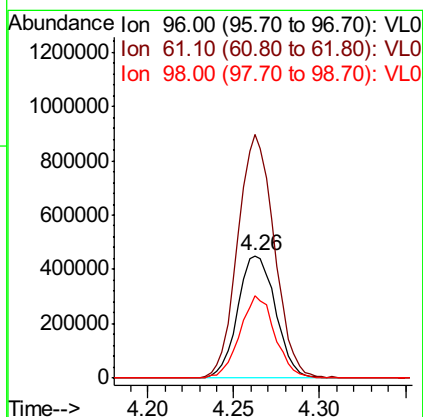
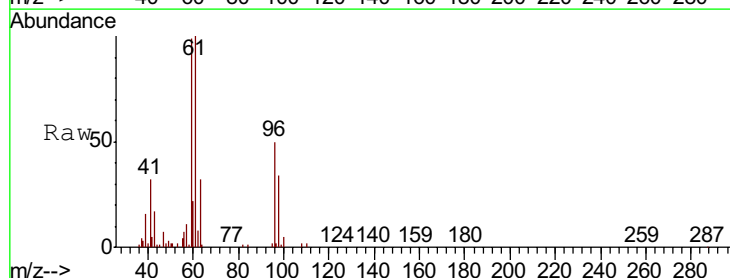
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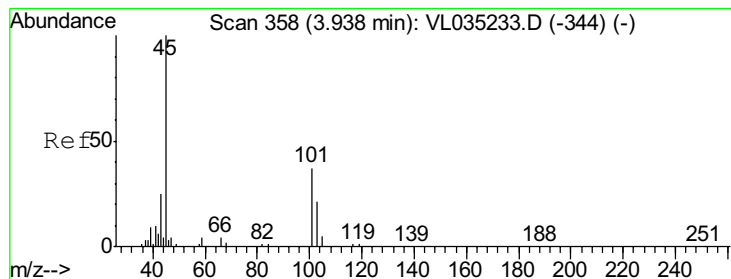


#18

1,1-Dichloroethene
Concen: 9.449 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 96 Resp: 691812
Ion Ratio Lower Upper
96 100
61 199.3 159.4 239.2
98 67.4 53.9 80.9





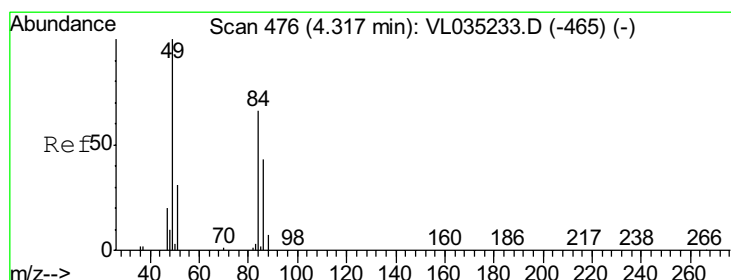
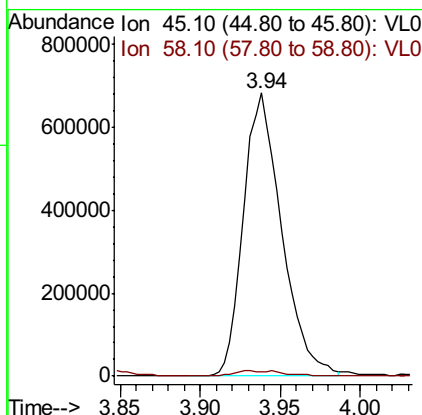
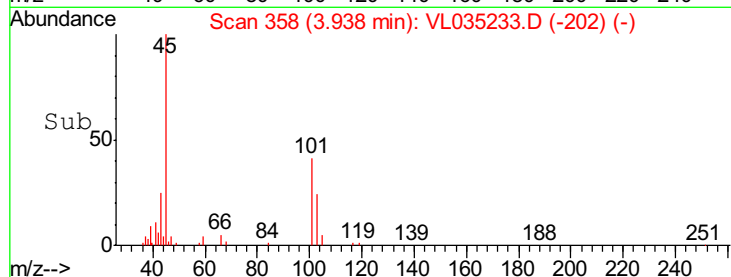
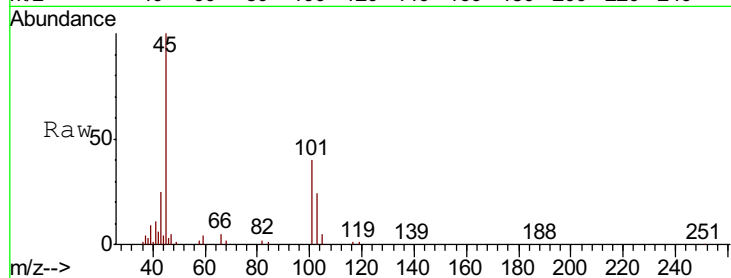
#19
Isopropyl Alcohol
Concen: 9.099 ppbv
RT: 3.94 min Scan# 358
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 45 Resp: 1112397
Ion Ratio Lower Upper
45 100
58 2.4 1.9 2.9

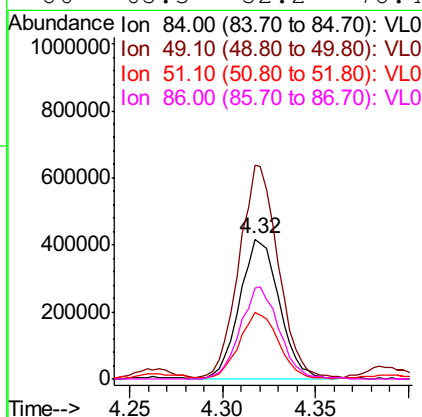
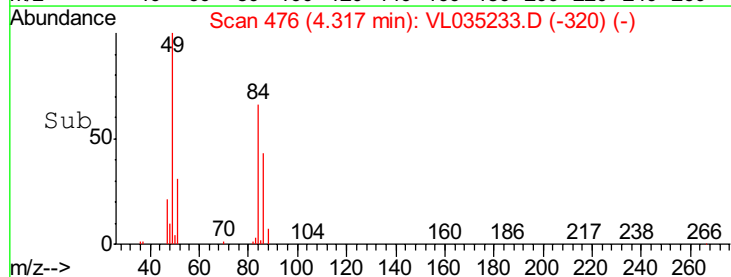
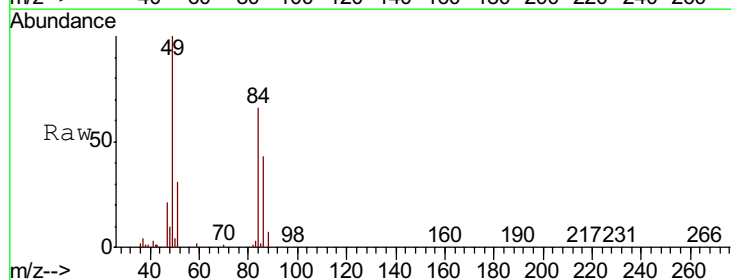
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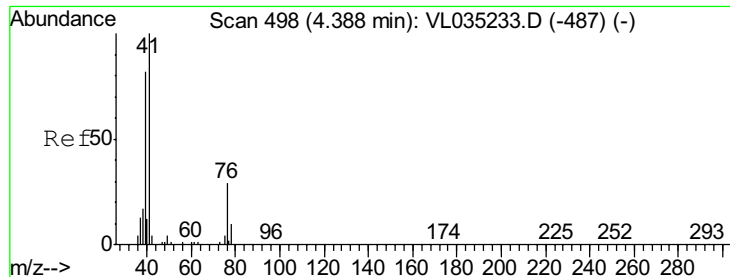
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#20
Methylene Chloride
Concen: 7.070 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 84 Resp: 619962
Ion Ratio Lower Upper
84 100
49 151.2 121.0 181.4
51 47.1 37.7 56.5
86 65.3 52.2 78.4





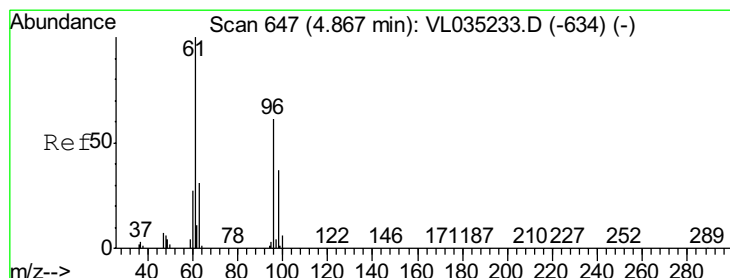
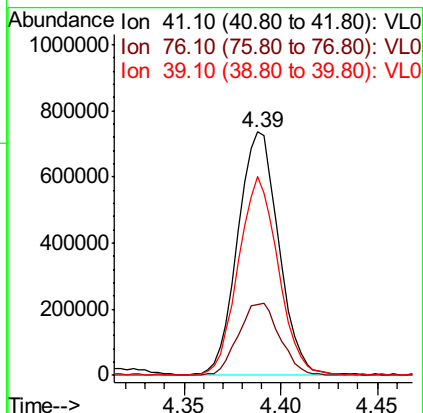
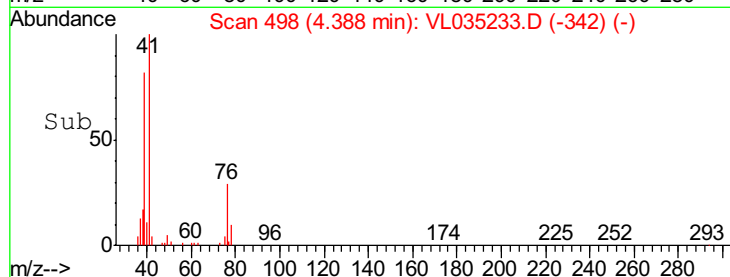
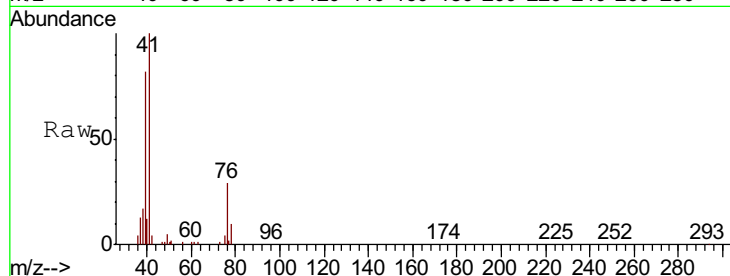
#21
Allvl Chloride
Concen: 9.232 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 41 Resp: 1078133
Ion Ratio Lower Upper
41 100
76 30.5 24.4 36.6
39 79.8 63.8 95.8

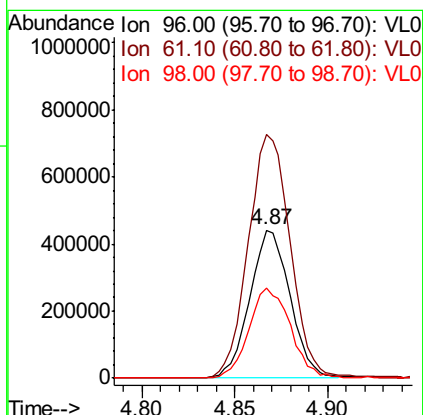
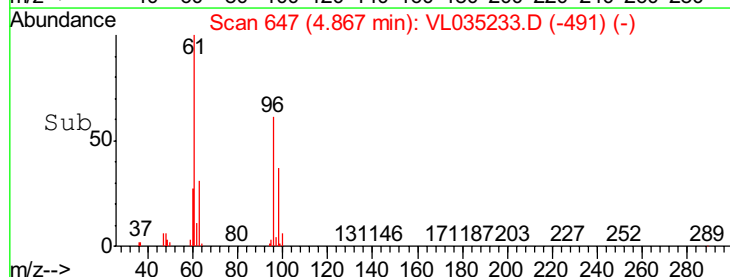
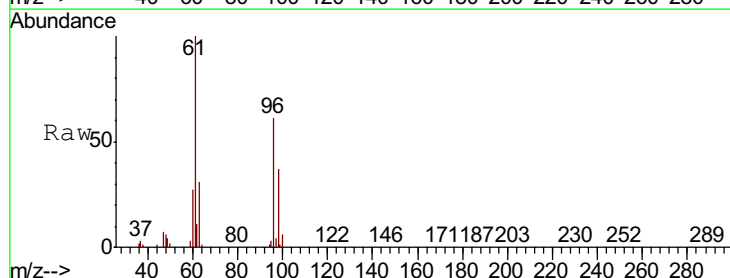
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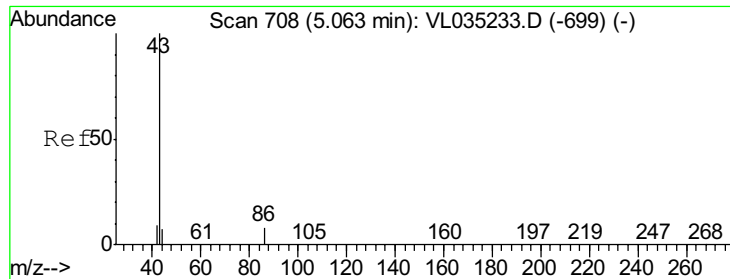
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.168 ppbv
RT: 4.87 min Scan# 647
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 96 Resp: 666499
Ion Ratio Lower Upper
96 100
61 164.5 131.6 197.4
98 61.2 49.0 73.4





#23

Vinyl Acetate

Concen: 9.197 ppbv

RT: 5.06 min Scan# 708

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 43 Resp: 1971982

Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.2	9.2
42	10.0	8.0	12.0
44	6.5	5.2	7.8

43 100

86 7.7 6.2 9.2

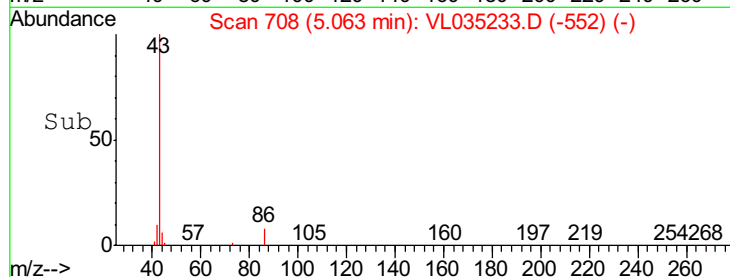
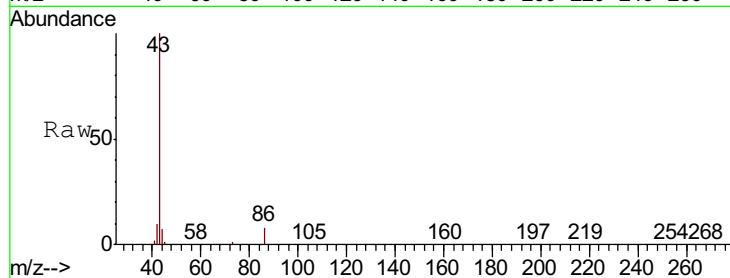
42 10.0 8.0 12.0

44 6.5 5.2 7.8

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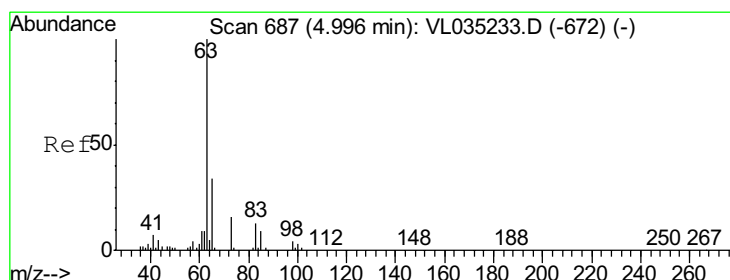
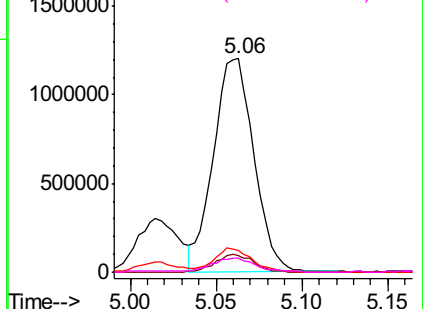


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.977 ppbv

RT: 5.00 min Scan# 687

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

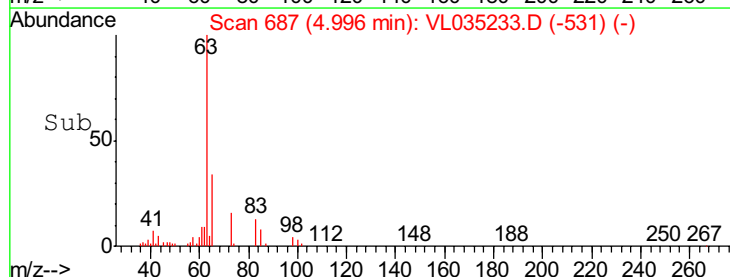
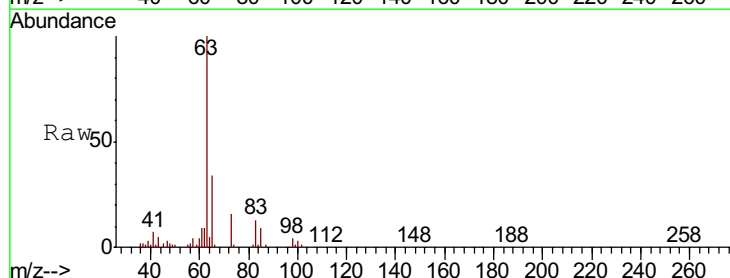
Tgt Ion: 63 Resp: 1671321

Ion	Ratio	Lower	Upper
63	100		
98	3.8	1.9	5.7
100	2.8	1.4	4.2

63 100

98 3.8 1.9 5.7

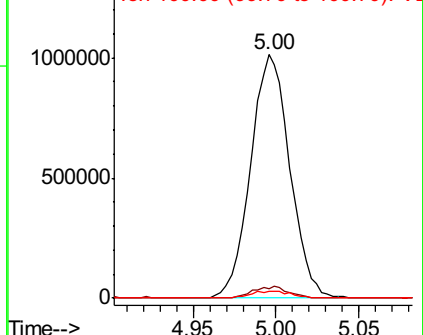
100 2.8 1.4 4.2

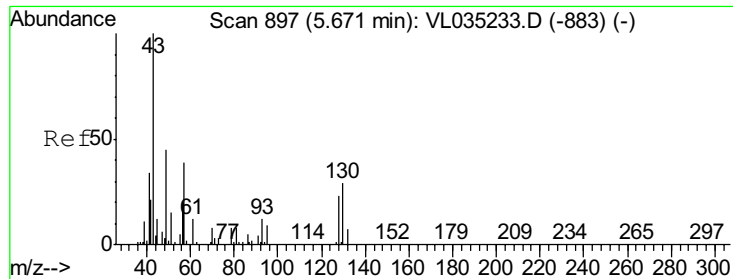


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.189 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 43 Resp: 2854872

Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.5	12.7
61	10.1	8.1	12.1
70	7.8	6.2	9.4

43 100

45 10.6 8.5 12.7

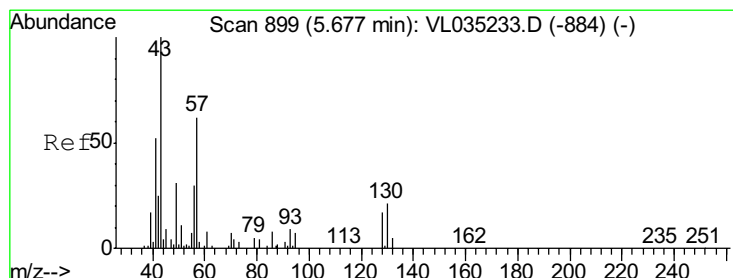
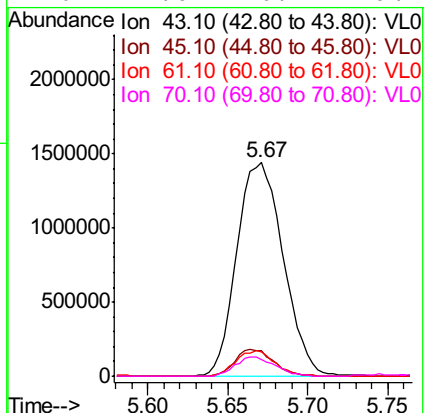
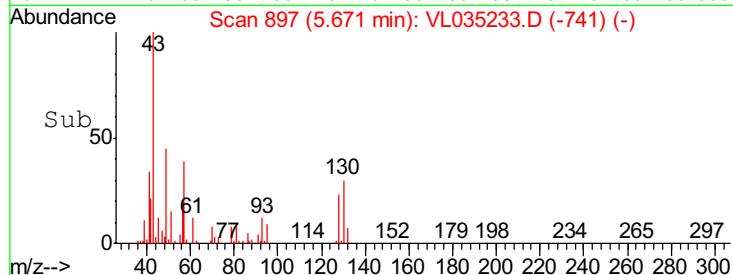
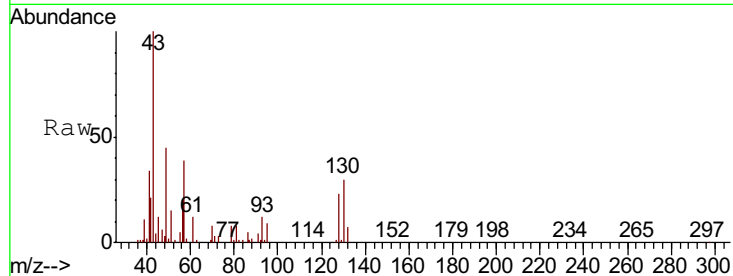
61 10.1 8.1 12.1

70 7.8 6.2 9.4

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#26

Hexane

Concen: 9.412 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Tgt Ion: 57 Resp: 1292251

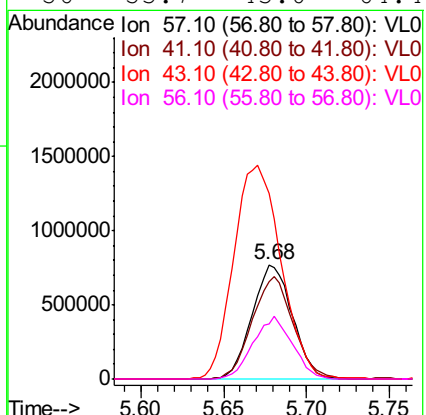
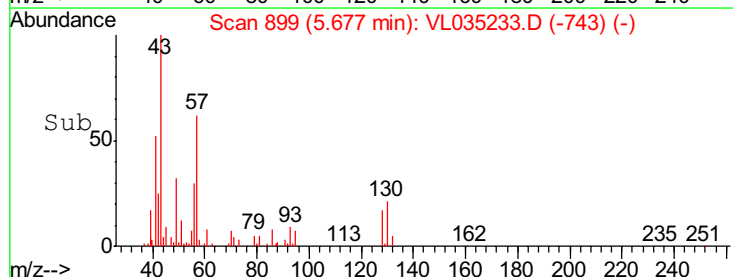
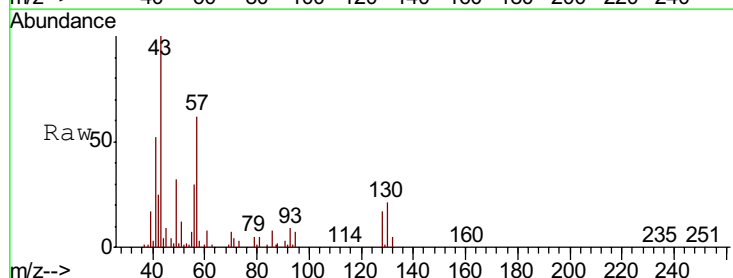
Ion	Ratio	Lower	Upper
57	100		
41	92.4	73.9	110.9
43	222.0	177.6	266.4
56	53.7	43.0	64.4

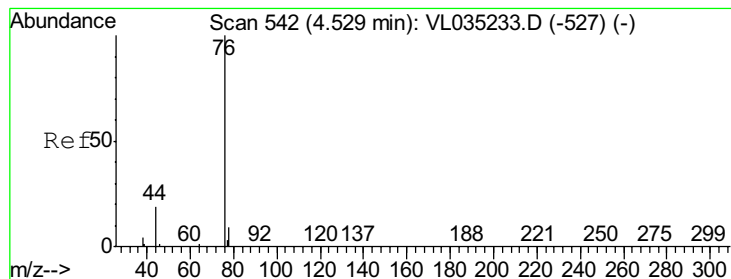
57 100

41 92.4 73.9 110.9

43 222.0 177.6 266.4

56 53.7 43.0 64.4





#27

Carbon Disulfide

Concen: 9.345 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 76 Resp: 1784416

Ion Ratio Lower Upper

76 100

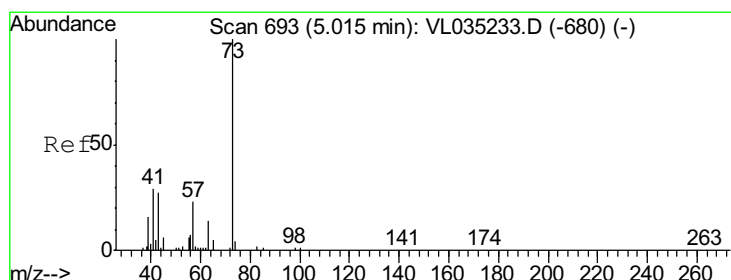
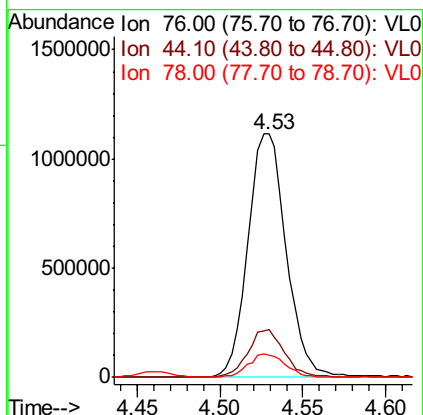
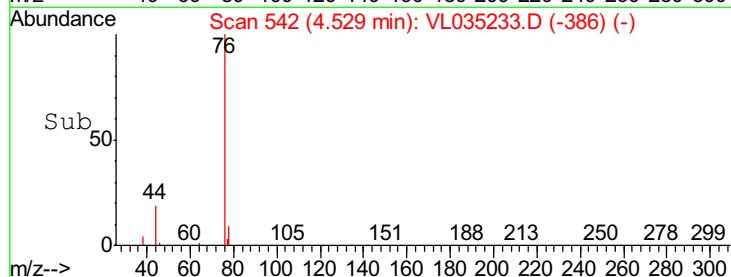
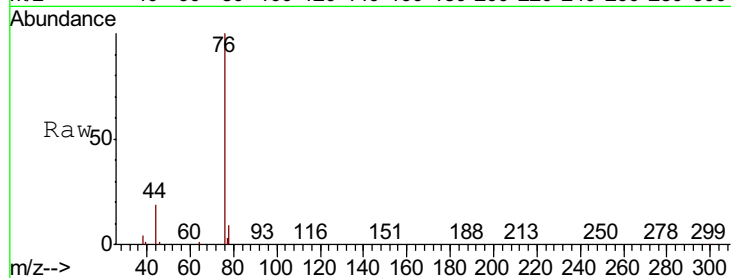
44 18.4 14.7 22.1

78 9.5 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 9.439 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL035233.D

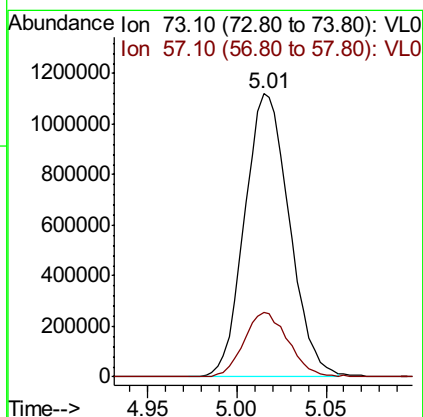
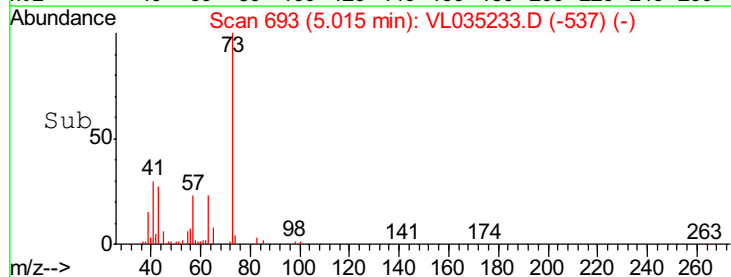
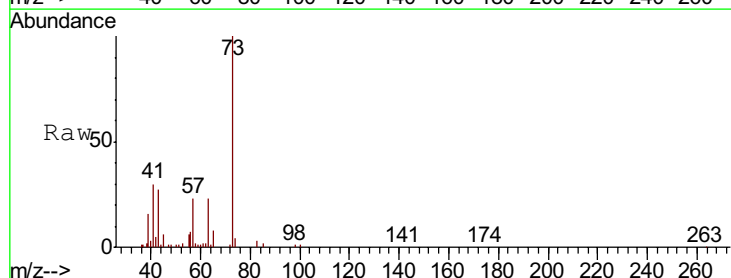
Acq: 29 Jul 2020 2:44

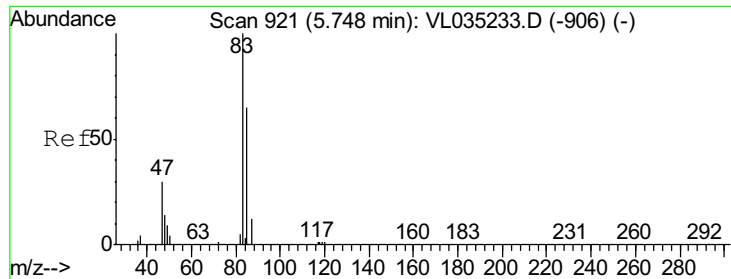
Tgt Ion: 73 Resp: 1967000

Ion Ratio Lower Upper

73 100

57 22.8 18.2 27.4





#29

Chloroform

Concen: 9.051 ppbv

RT: 5.75 min Scan# 921

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 83 Resp: 2087789

Ion Ratio Lower Upper

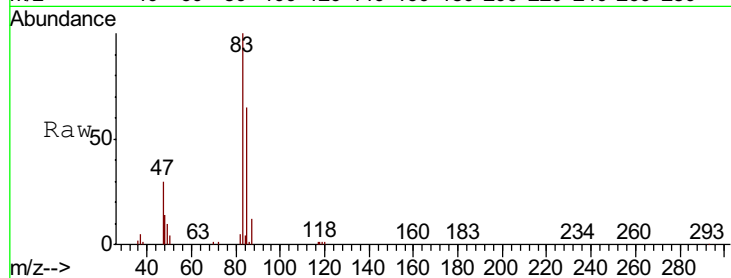
83 100

85 64.6 51.7 77.5

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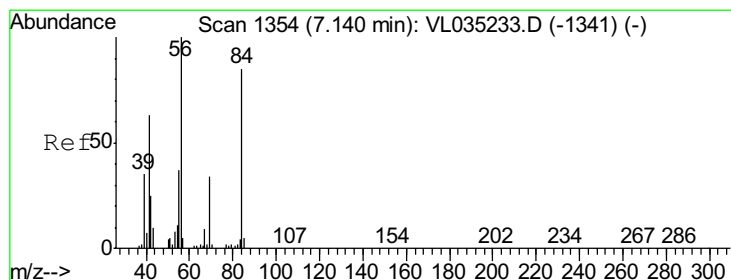
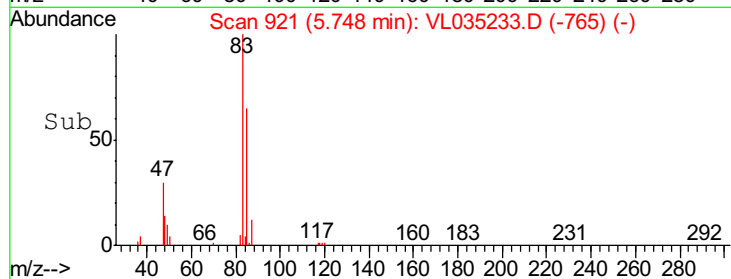
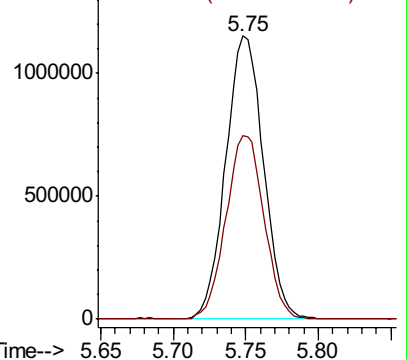
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 10.666 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

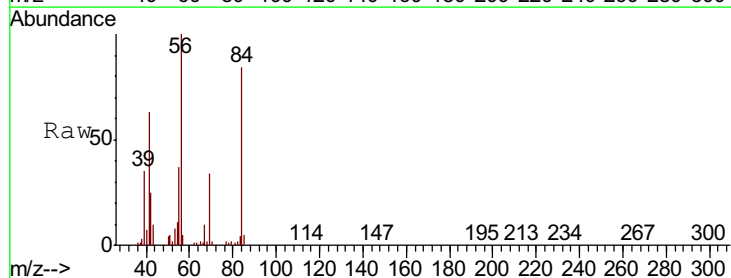
Tgt Ion: 84 Resp: 1081665

Ion Ratio Lower Upper

84 100

56 130.2 104.2 156.2

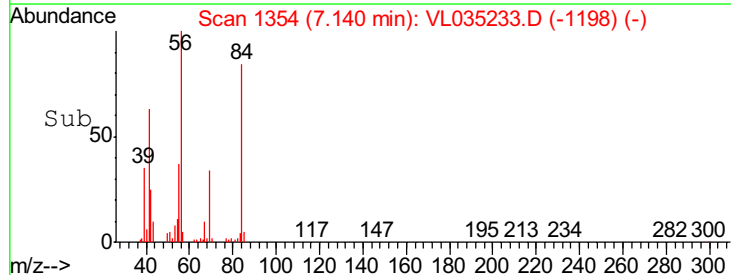
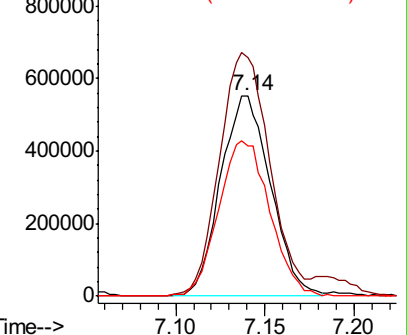
41 79.1 63.7 95.5

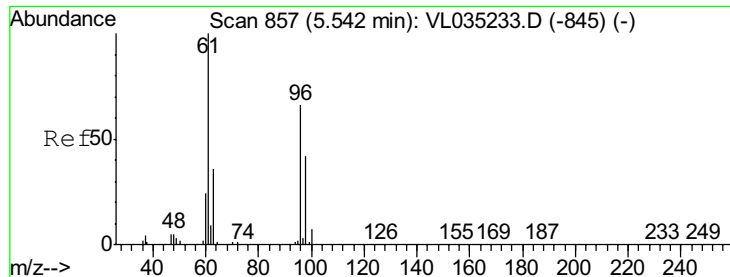


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





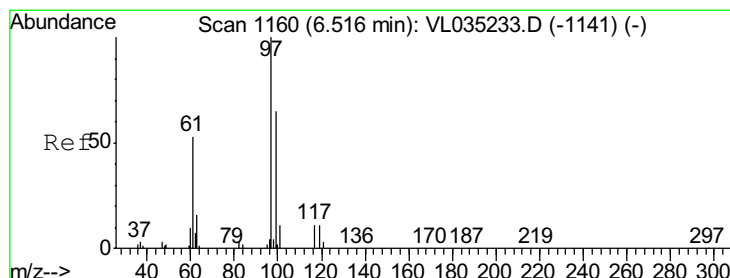
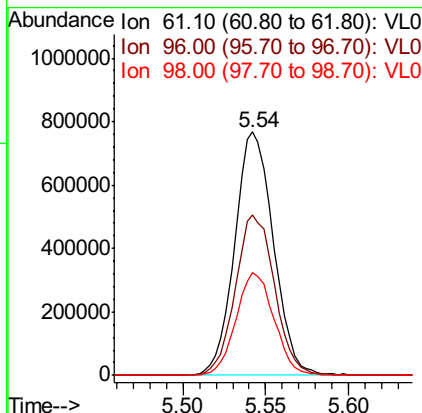
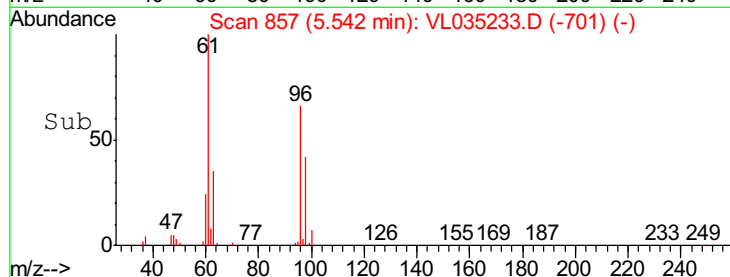
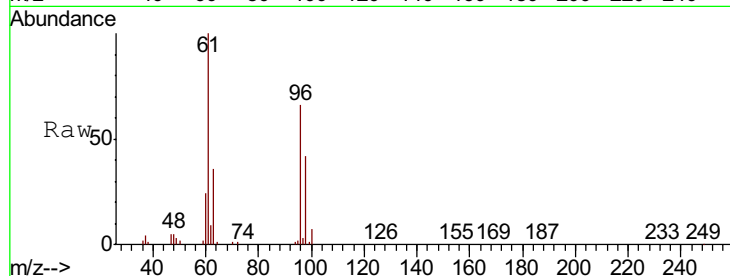
#31
 cis-1,2-Dichloroethene
 Concen: 9.635 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampled :
 VSTICCC010

Tot Ion: 61 Resp: 1243213
 Ion Ratio Lower Upper
 61 100
 96 65.7 52.6 78.8
 98 42.1 33.7 50.5

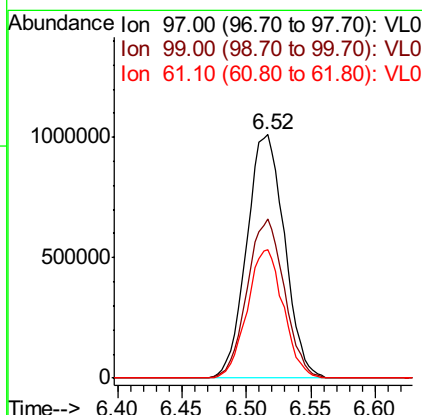
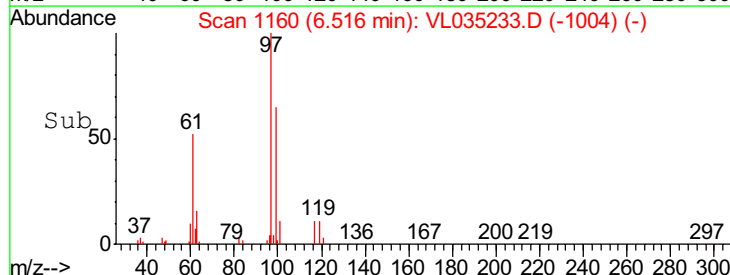
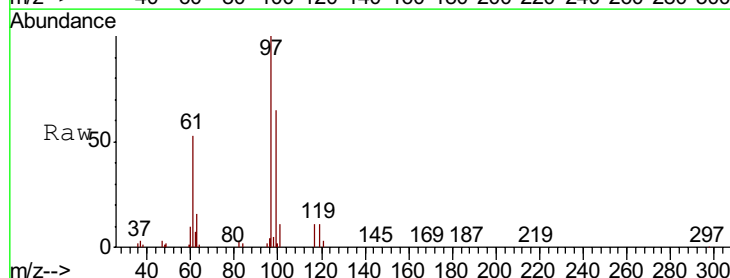
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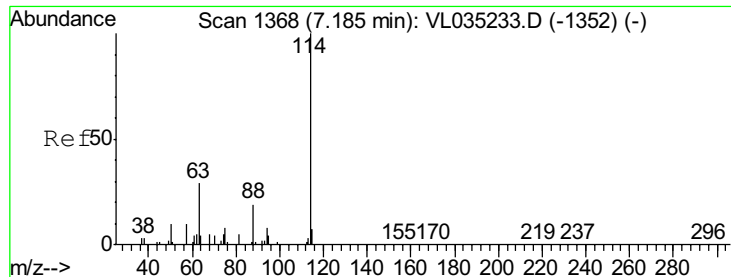
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#32
 1,1,1-Trichloroethane
 Concen: 8.982 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion: 97 Resp: 2071533
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.4 77.0
 61 50.5 40.4 60.6





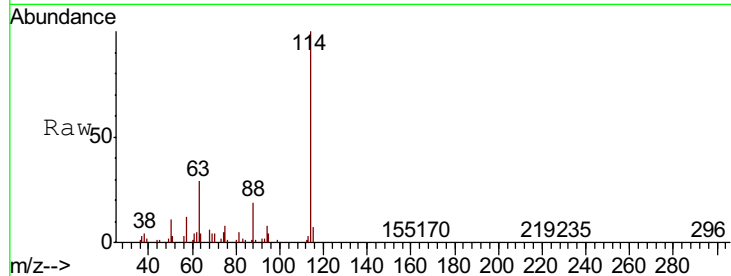
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

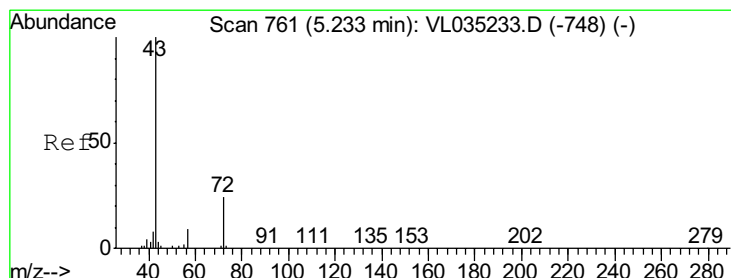
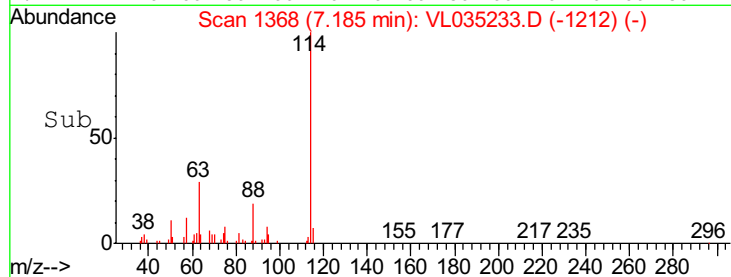
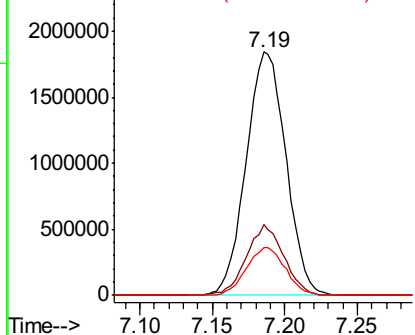
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	19.2	15.4	23.0

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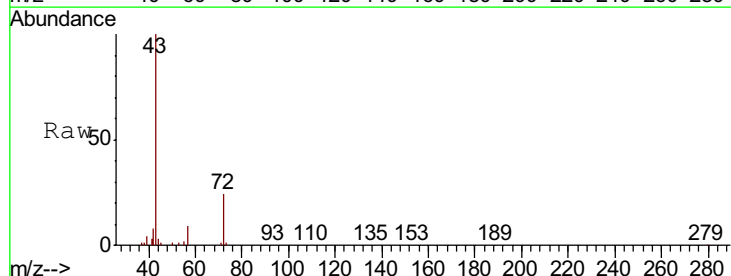


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

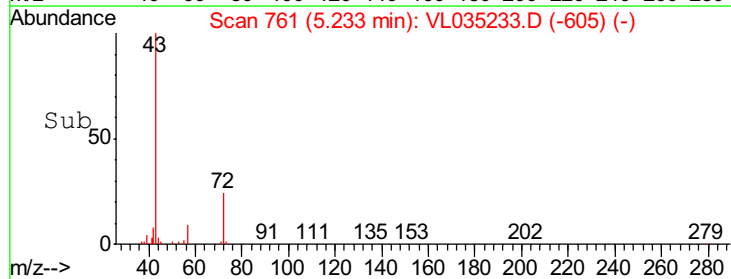
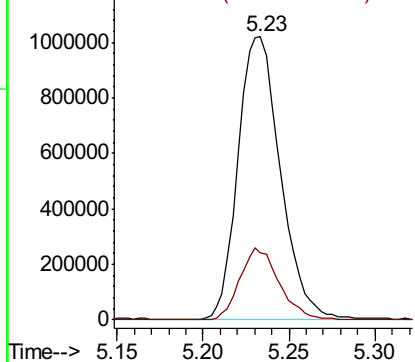


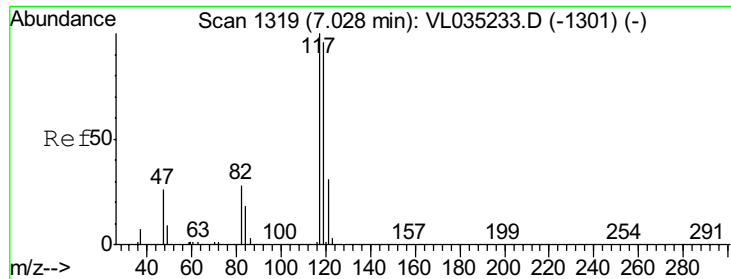
#34
 2-Butanone
 Concen: 9.244 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	19.2	28.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

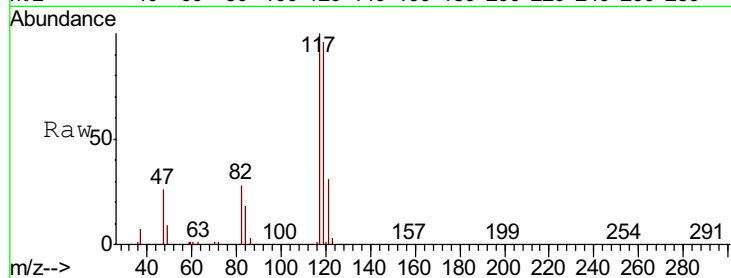
Carbon Tetrachloride
Concen: 9.467 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

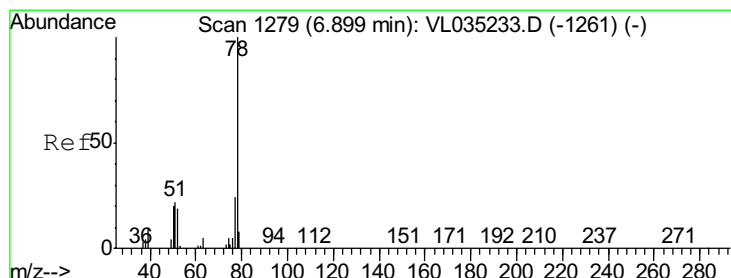
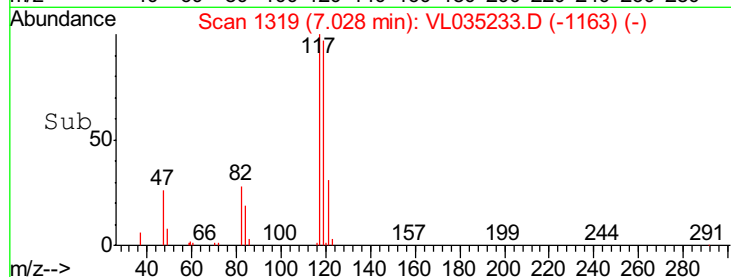
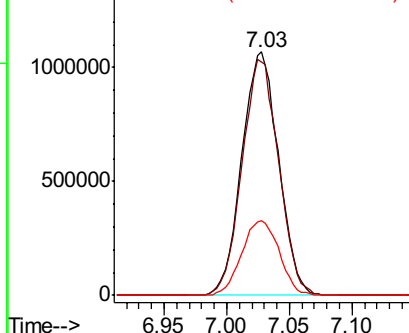
Tot Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.8	115.2
121	30.6	24.5	36.7

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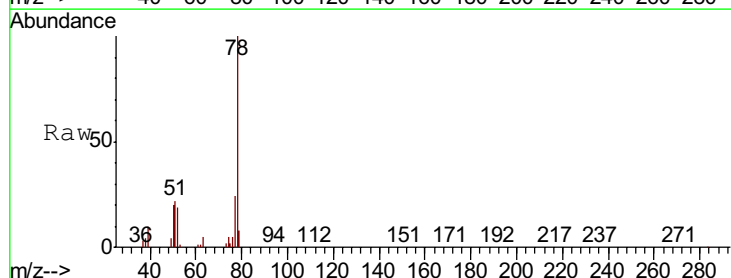
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



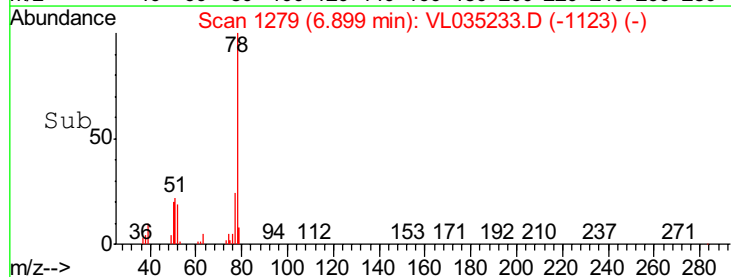
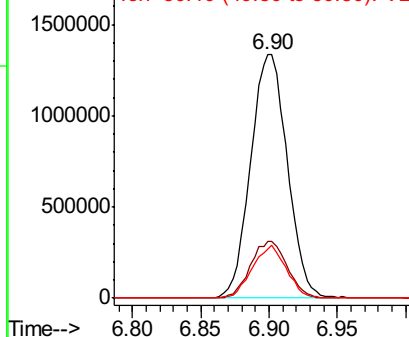
#36

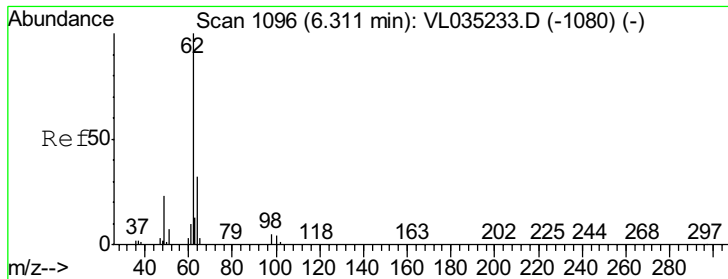
Benzene
Concen: 9.771 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3
50	20.1	16.1	24.1



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





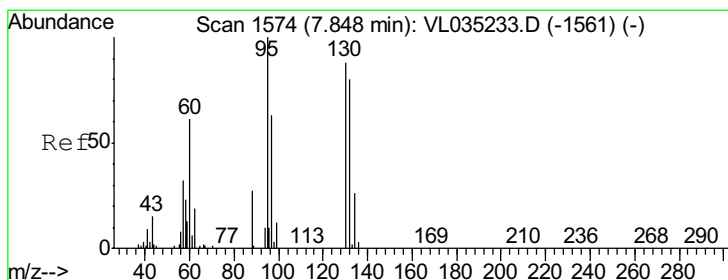
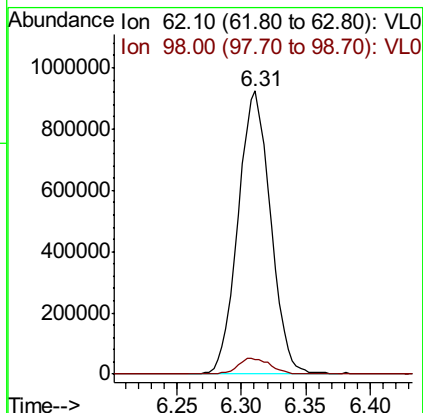
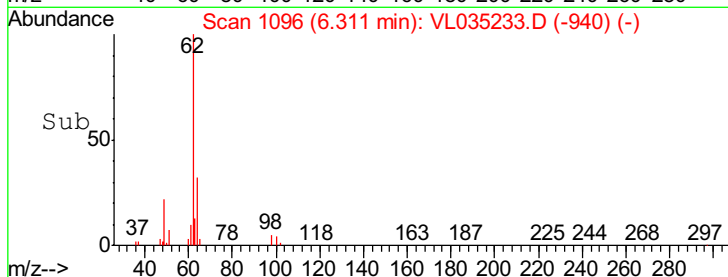
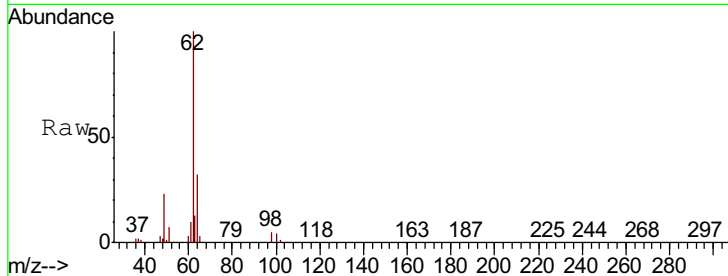
#37
1,2-Dichloroethane
Concen: 9.418 ppbv
RT: 6.31 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 62 Resp: 1624327
Ion Ratio Lower Upper
62 100
98 5.6 4.5 6.7

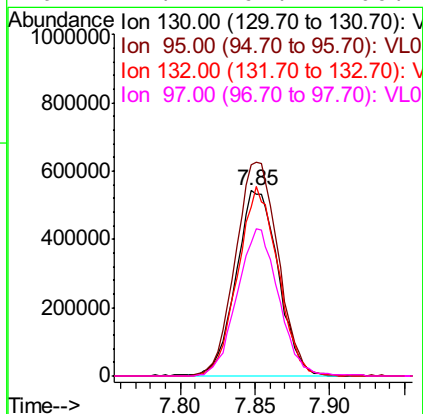
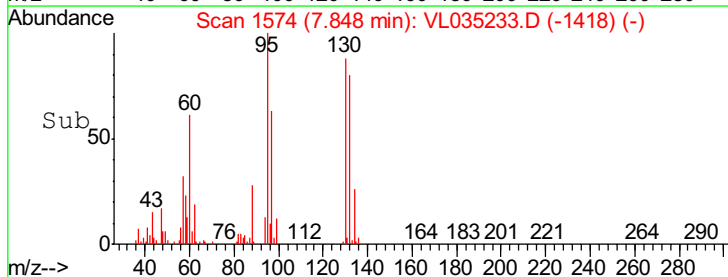
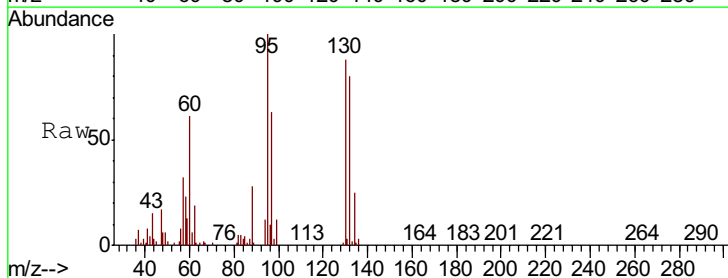
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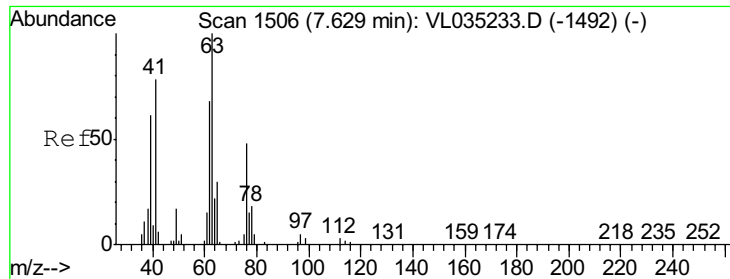
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#38
Trichloroethene
Concen: 10.159 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 130 Resp: 1063900
Ion Ratio Lower Upper
130 100
95 113.4 90.7 136.1
132 91.1 72.9 109.3
97 71.4 57.1 85.7





#39

1,2-Dichloropropane

Concen: 9.736 ppbv

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 63 Resp: 994830

Ion Ratio Lower Upper

63 100

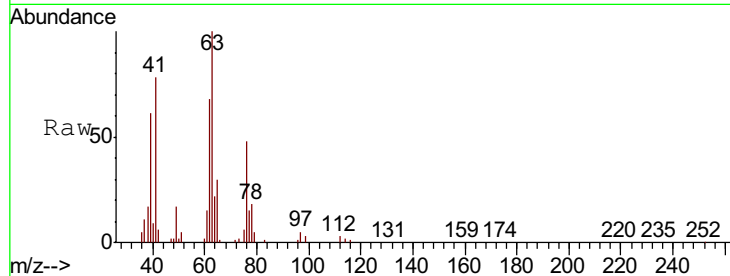
41 77.8 62.2 93.4

62 67.7 54.2 81.2

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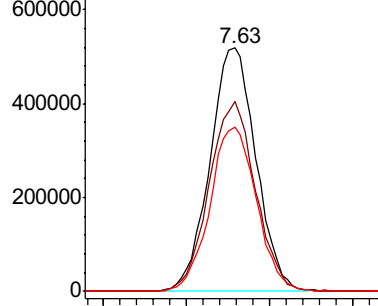
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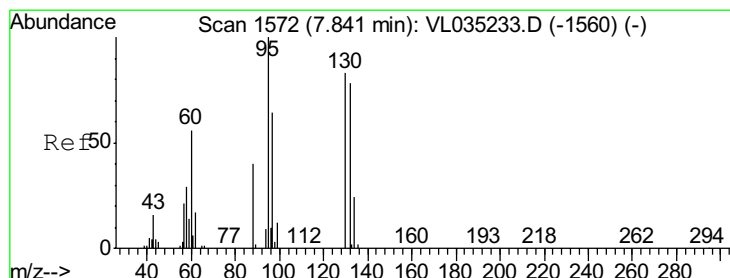
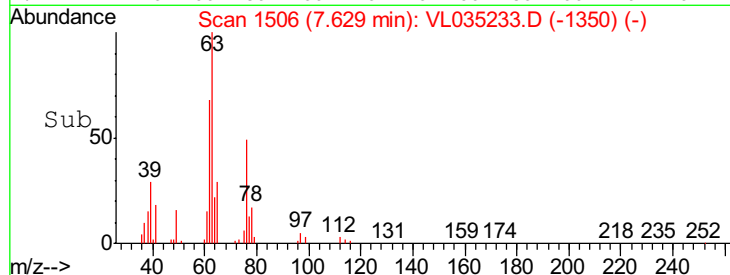
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



Time-->



#40

1,4-Dioxane

Concen: 10.136 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Tgt Ion: 88 Resp: 412868

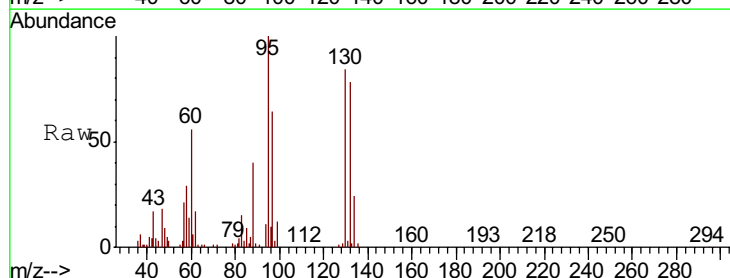
Ion Ratio Lower Upper

88 100

58 124.8 99.3 148.9

43 245.9 195.6 293.4

57 1068.0 854.3 1281.5

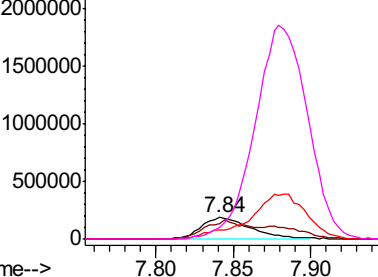


Abundance Ion 88.10 (87.80 to 88.80): VL0

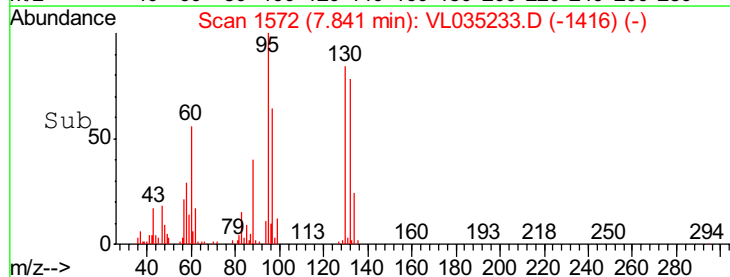
Ion 58.10 (57.80 to 58.80): VL0

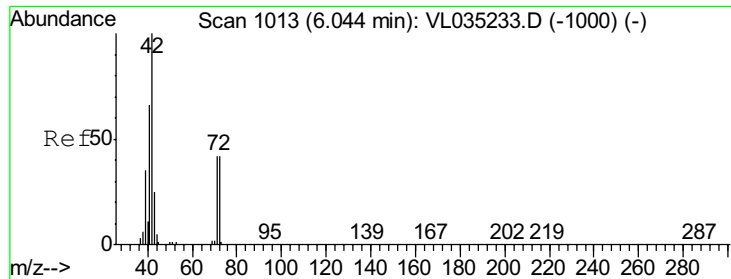
Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



Time-->





#41

Tetrahydrofuran

Concen: 10.043 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 42 Resp: 939830

Ion Ratio Lower Upper

42 100

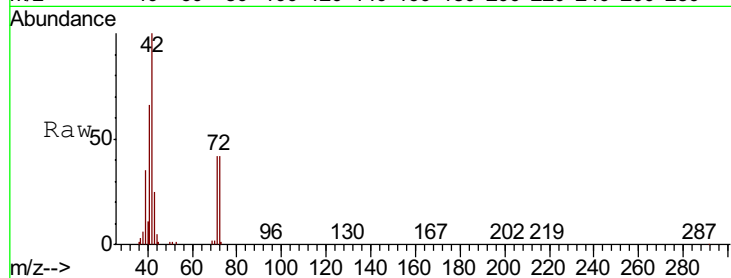
72 42.7 34.2 51.2

71 41.5 33.2 49.8

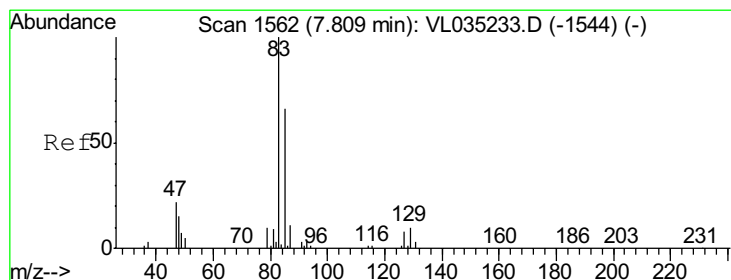
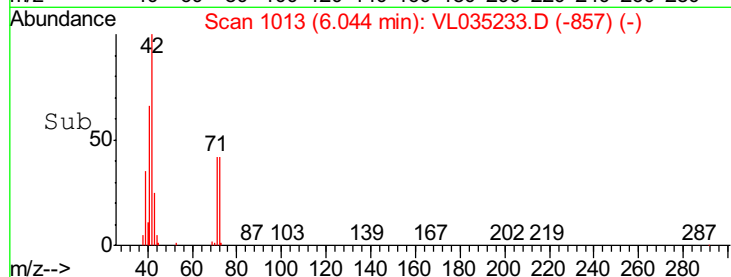
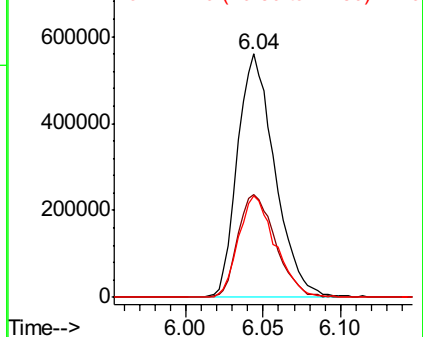
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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.857 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

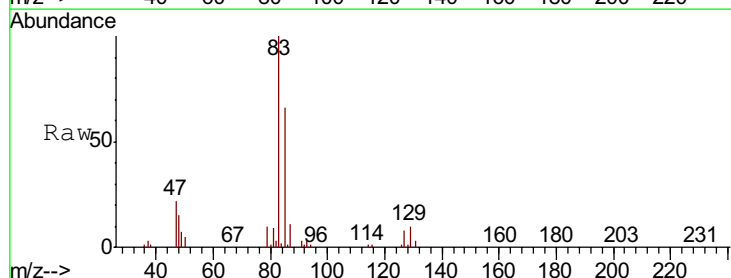
Tgt Ion: 83 Resp: 2270189

Ion Ratio Lower Upper

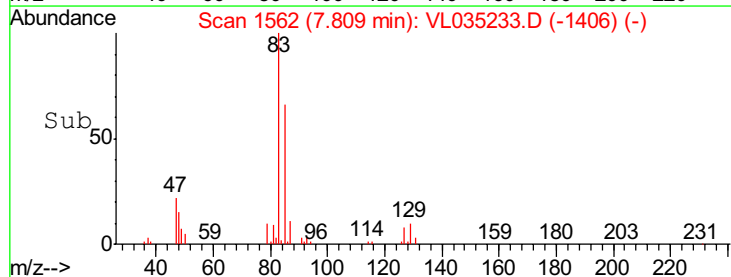
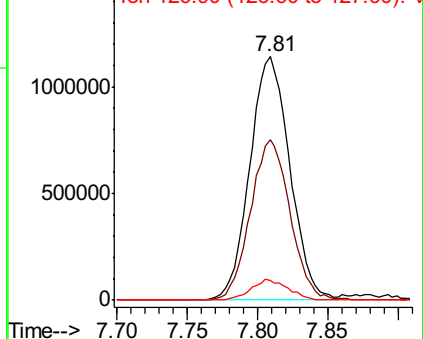
83 100

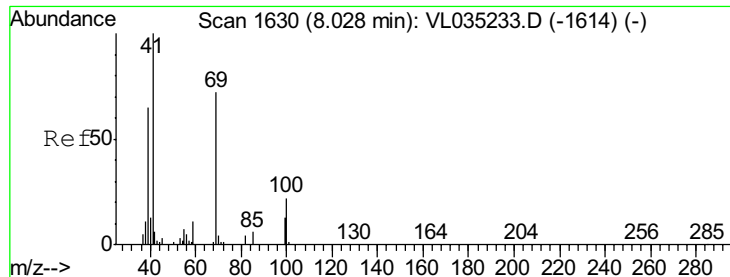
85 66.1 52.9 79.3

127 8.1 6.5 9.7



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

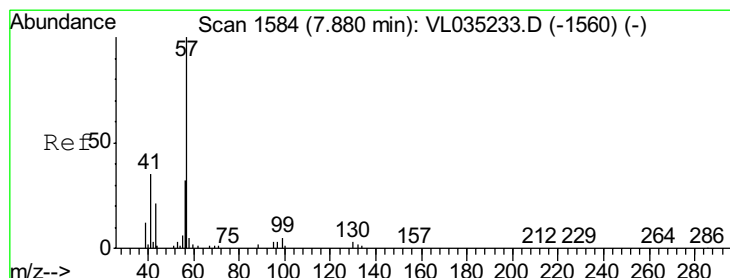
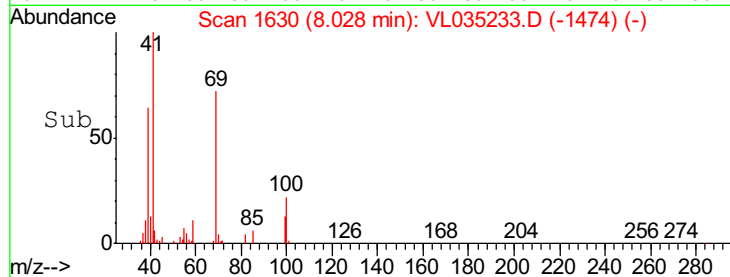
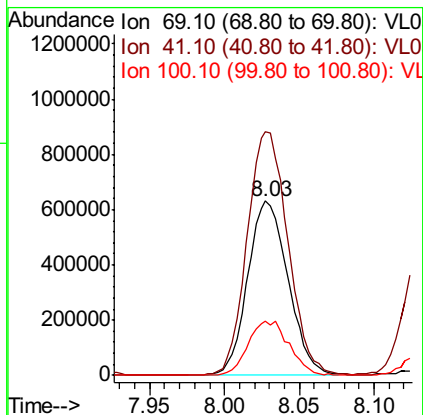
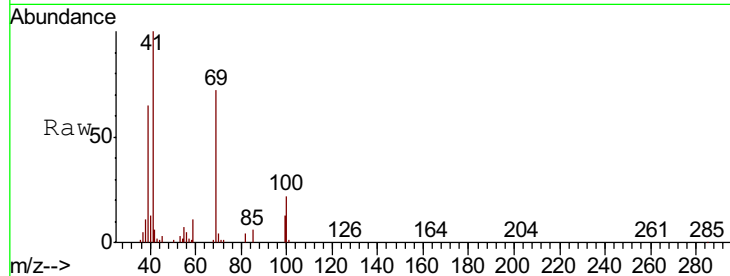
Methyl Methacrylate
 Concen: 10.903 ppbv
 RT: 8.03 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion: 69 Resp: 1185223
 Ion Ratio Lower Upper
 69 100
 41 141.1 113.0 169.4
 100 31.7 25.3 37.9

Manual Integrations
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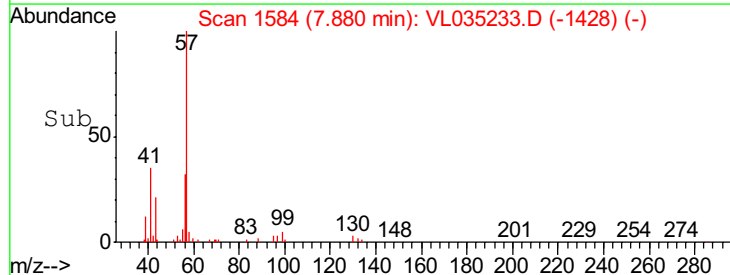
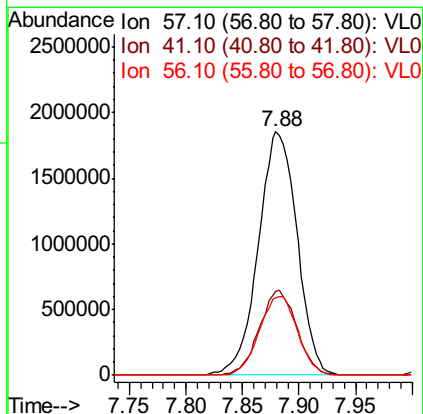
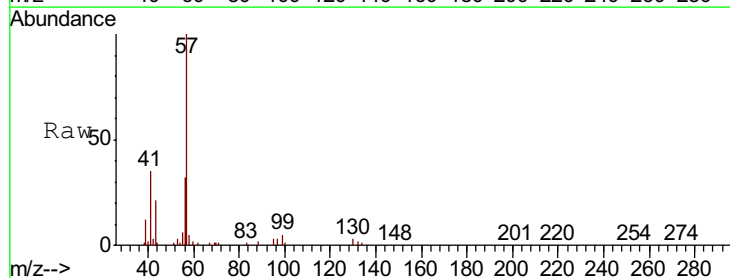
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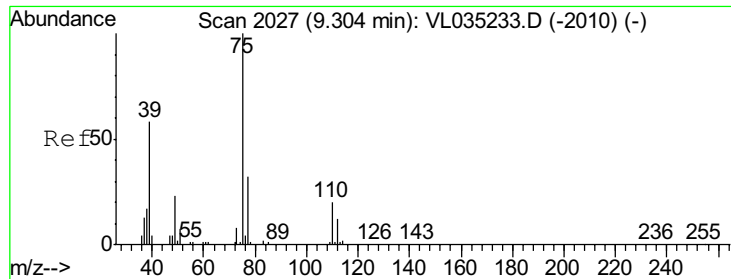


#44

2,2,4-Trimethylpentane
 Concen: 9.945 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion: 57 Resp: 4402479
 Ion Ratio Lower Upper
 57 100
 41 33.7 27.0 40.4
 56 32.0 25.6 38.4





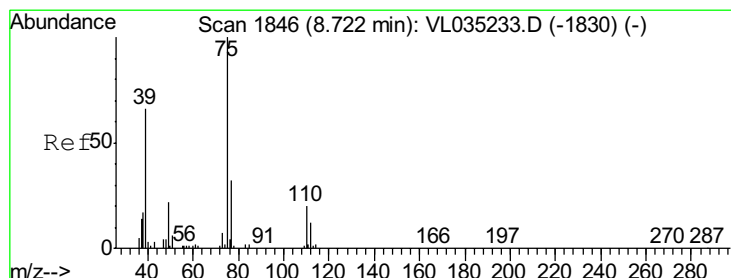
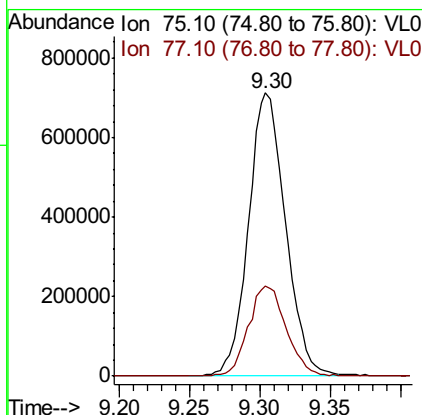
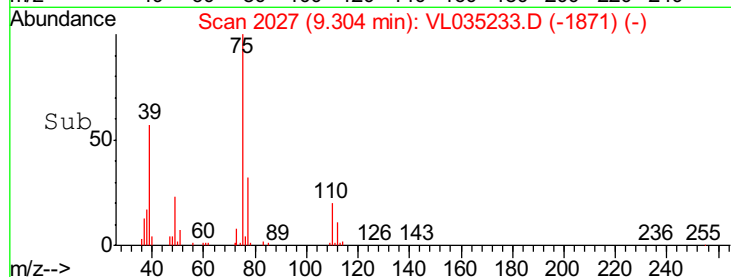
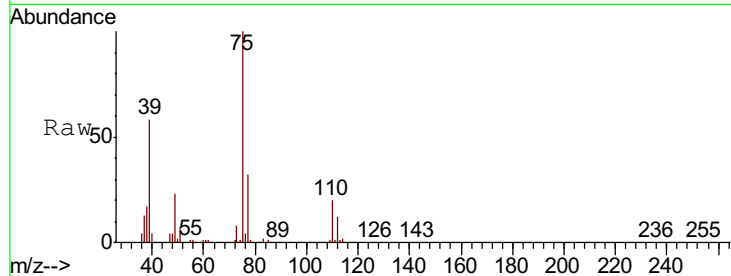
#45
 t-1,3-Dichloropropene
 Concen: 11.529 ppbv
 RT: 9.30 min Scan# 2027
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion: 75 Resp: 1311010
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.6 38.4

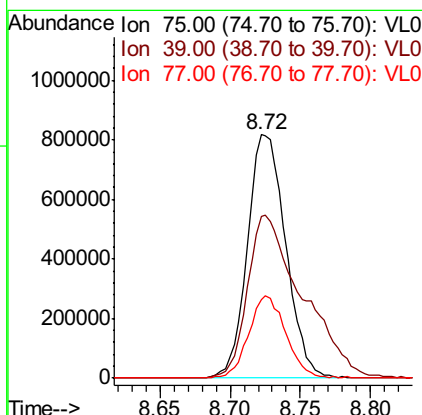
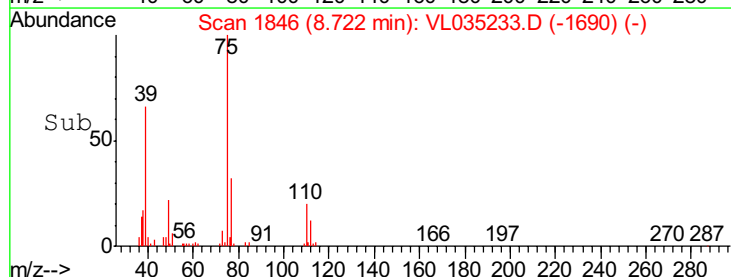
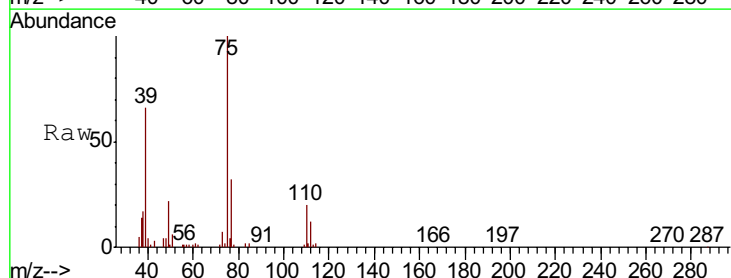
Manual Integrations
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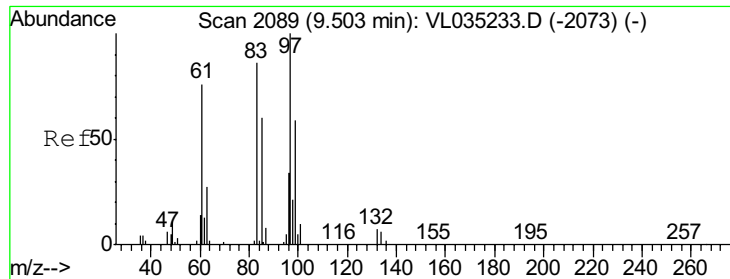
MMDadoda
 7/30/2020 6:10:17 PM



#46
 cis-1,3-Dichloropropene
 Concen: 11.491 ppbv
 RT: 8.72 min Scan# 1846
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion: 75 Resp: 1554672
 Ion Ratio Lower Upper
 75 100
 39 66.2 53.0 79.4
 77 32.3 25.8 38.8





#47

1,1,2-Trichloroethane

Concen: 9.995 ppbv

RT: 9.50 min Scan# 2089

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 97 Resp: 1121333

Ion Ratio Lower Upper

97 100

83 86.2 69.0 103.4

85 59.8 47.8 71.8

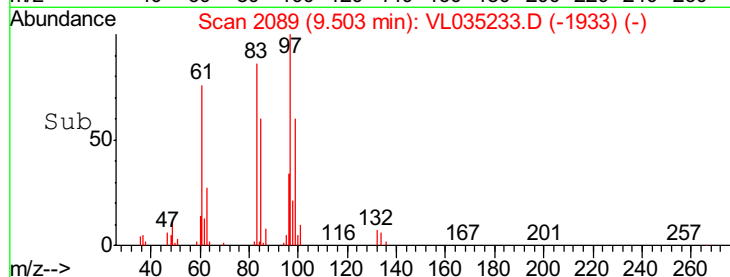
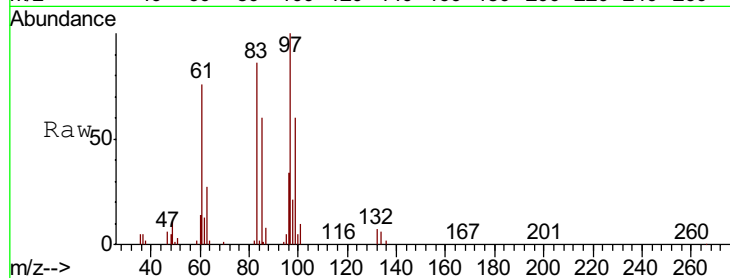
99 59.5 47.6 71.4

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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

Time-->

9.40 9.45 9.50 9.55 9.60

800000

600000

400000

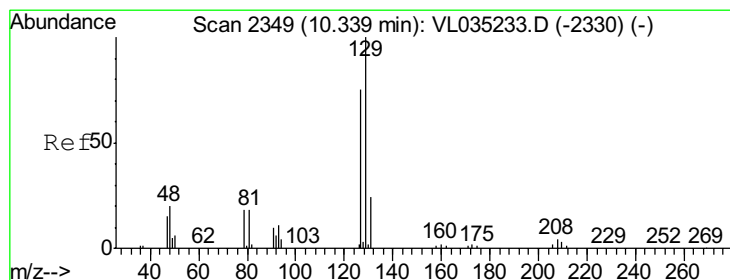
200000

0

9.50

Time-->

9.40 9.45 9.50 9.55 9.60



#48

Dibromochloromethane

Concen: 10.492 ppbv

RT: 10.34 min Scan# 2349

Delta R.T. 0.00 min

Lab File: VL035233.D

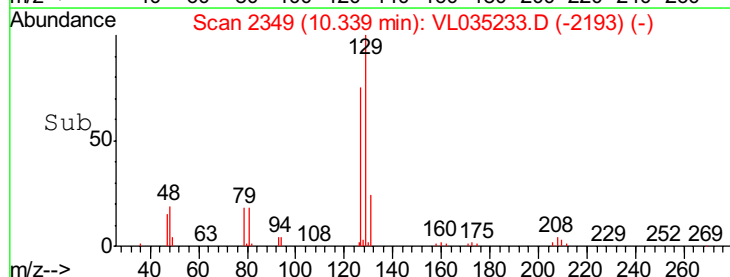
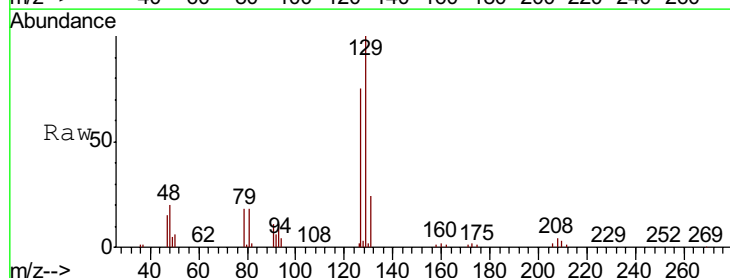
Acq: 29 Jul 2020 2:44

Tgt Ion: 129 Resp: 1912737

Ion Ratio Lower Upper

129 100

127 79.3 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

Time-->

10.30 10.34 10.40

1000000

800000

600000

400000

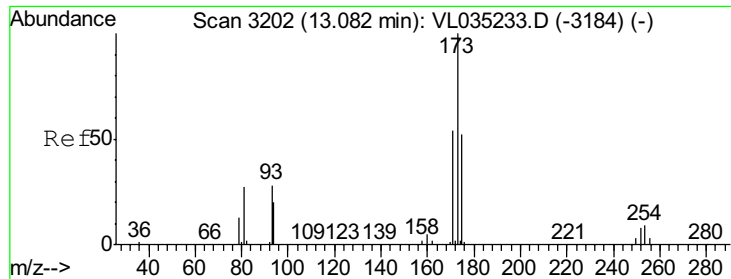
200000

0

10.34

Time-->

10.30 10.34 10.40



#49

Bromoform

Concen: 10.948 ppbv m

RT: 13.08 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:173 Resp: 1762244

Ion Ratio Lower Upper

173 100

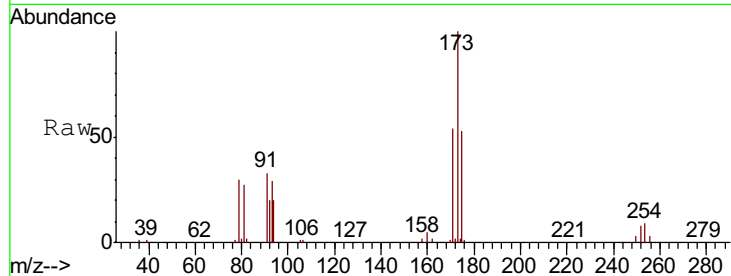
175 50.1 40.0 60.0

171 52.4 41.8 62.8

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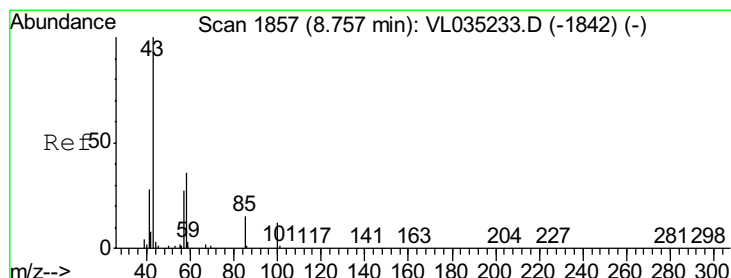
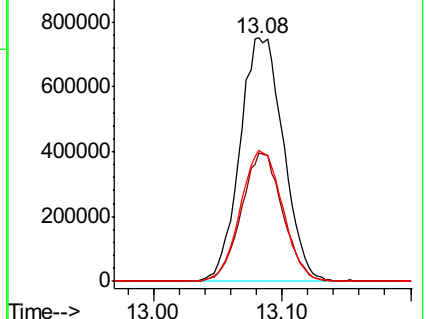
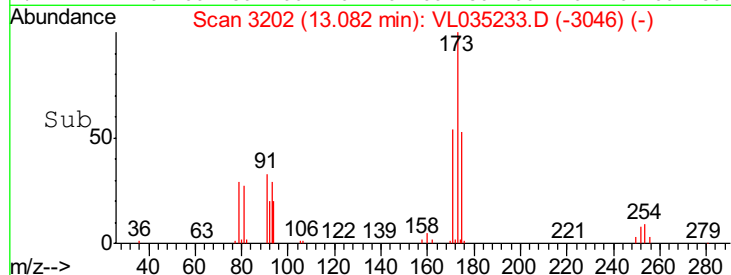
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.234 ppbv

RT: 8.76 min Scan# 1857

Delta R.T. 0.00 min

Lab File: VL035233.D

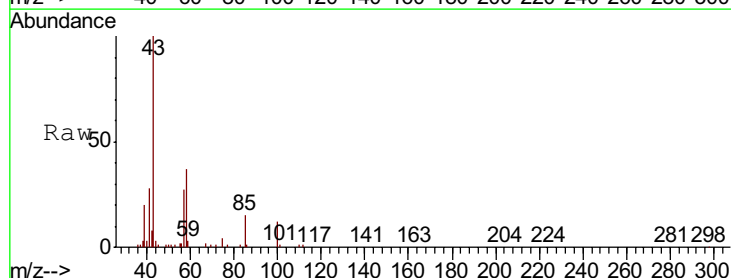
Acq: 29 Jul 2020 2:44

Tgt Ion: 43 Resp: 2770667

Ion Ratio Lower Upper

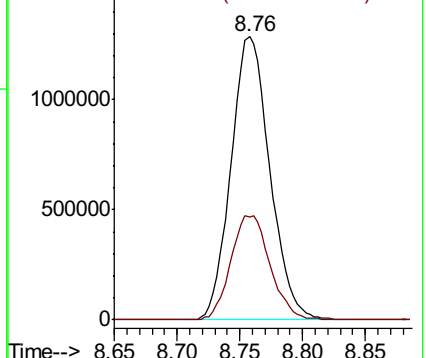
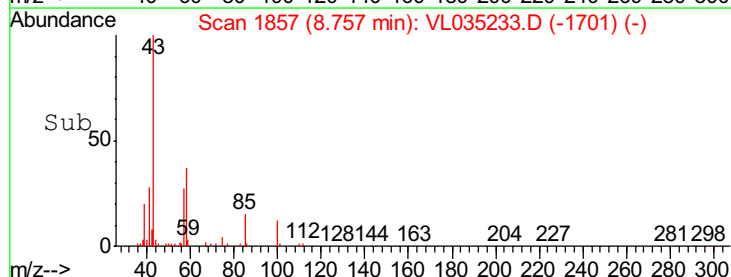
43 100

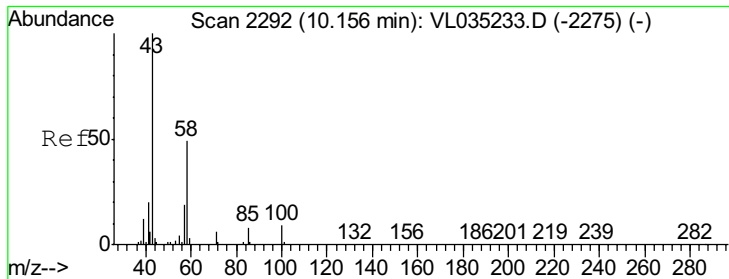
58 37.5 30.0 45.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





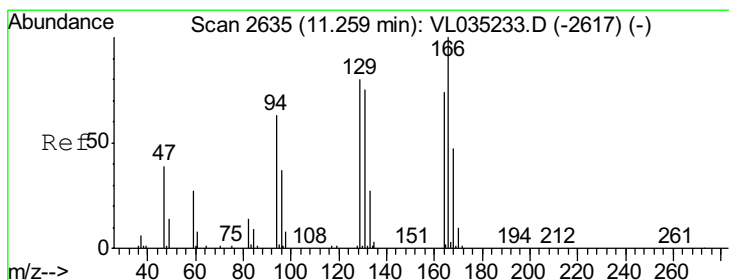
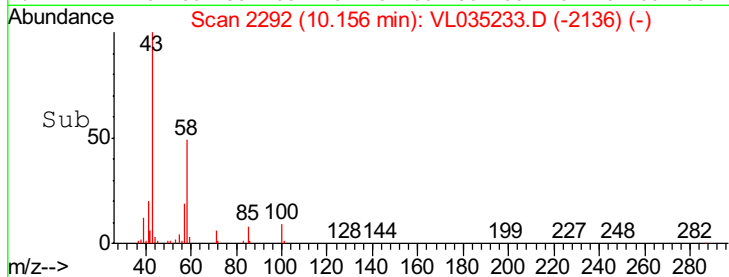
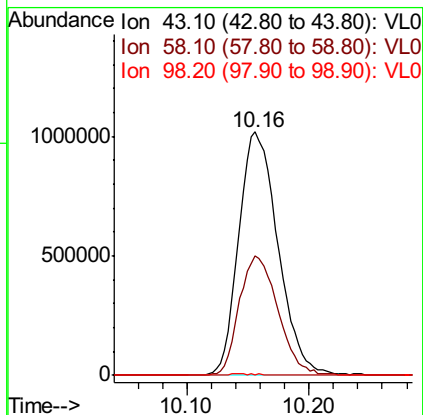
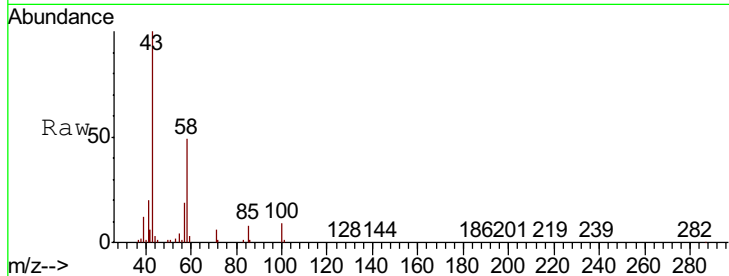
#51
2-Hexanone
Concen: 10.936 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 43 Resp: 2266986
Ion Ratio Lower Upper
43 100
58 48.5 38.8 58.2
98 0.7 0.6 0.8

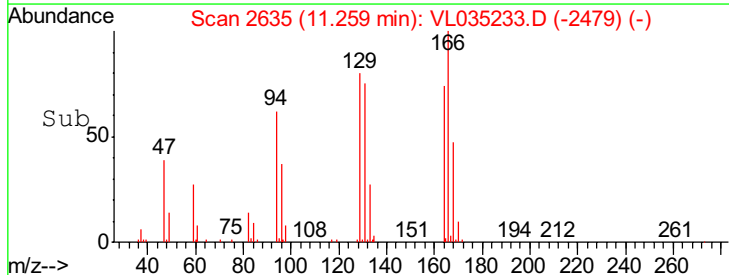
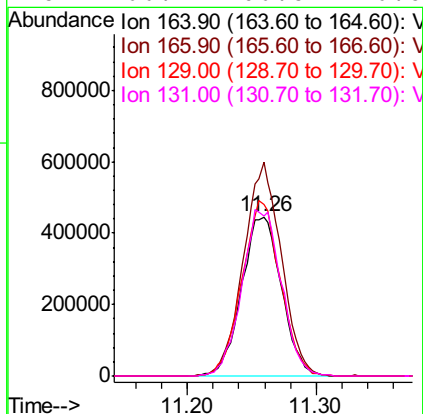
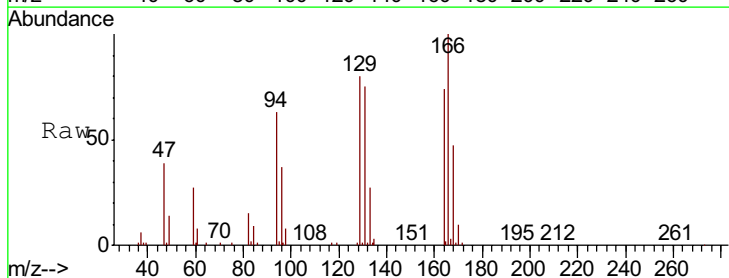
Manual Integrations
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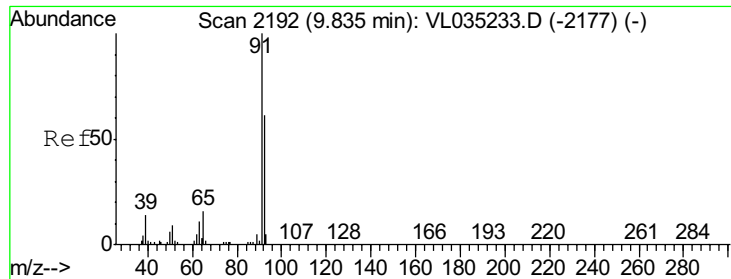
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#52
Tetrachloroethene
Concen: 9.959 ppbv
RT: 11.26 min Scan# 2635
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 164 Resp: 957241
Ion Ratio Lower Upper
164 100
166 134.4 107.5 161.3
129 107.5 86.0 129.0
131 100.4 80.3 120.5





#53

Toluene

Concen: 11.096 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Tot Ion: 91 Resp: 3004541

Ion Ratio Lower Upper

91 100

92 60.6 48.5 72.7

Instrument :

MSVOA_L

ClientSampleId :

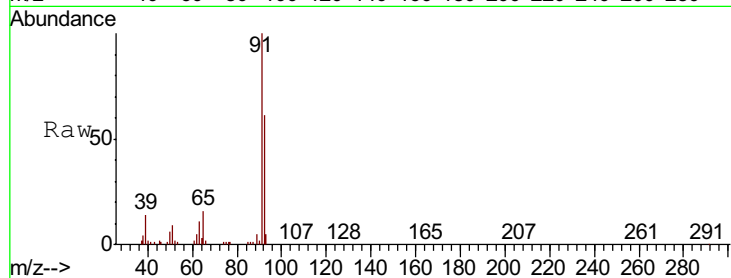
VSTICCC010

Manual Integrations

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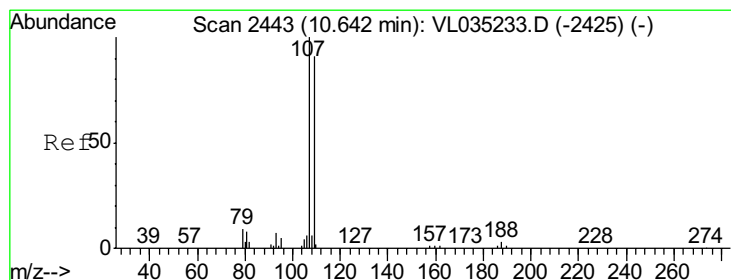
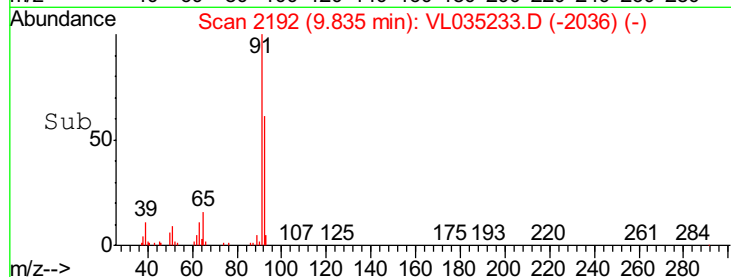
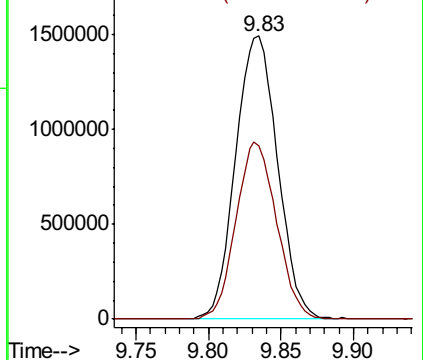
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.237 ppbv

RT: 10.64 min Scan# 2443

Delta R.T. 0.00 min

Lab File: VL035233.D

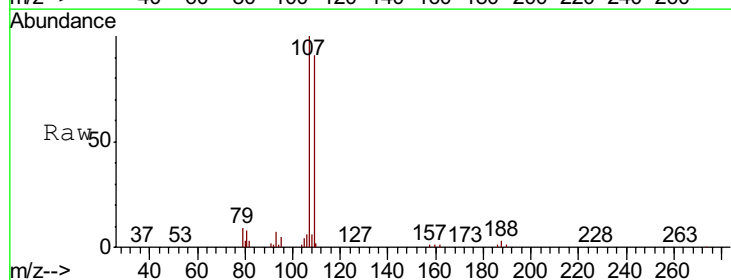
Acq: 29 Jul 2020 2:44

Tgt Ion: 107 Resp: 1702966

Ion Ratio Lower Upper

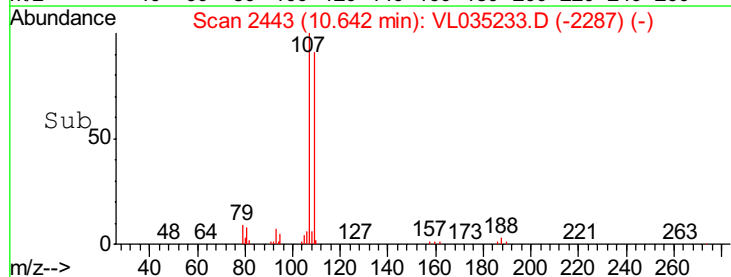
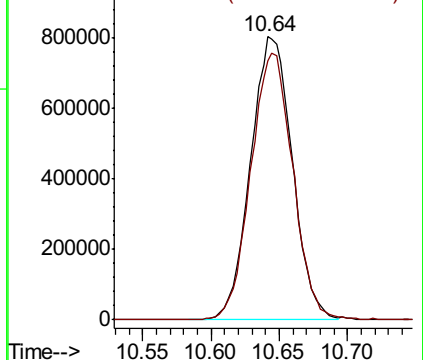
107 100

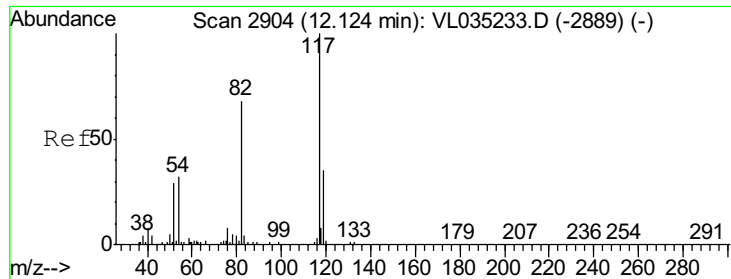
109 91.3 73.0 109.6



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: 12.12 min Scan# 2904

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:117 Resp: 3460548

Ion Ratio Lower Upper

117 100

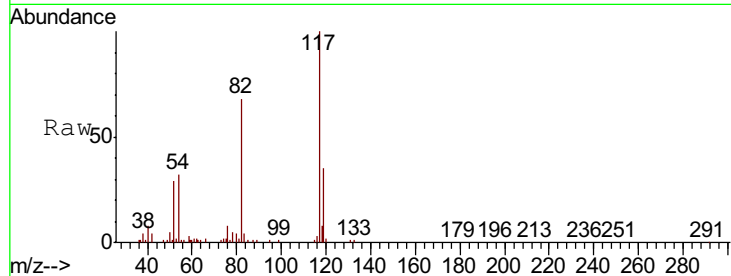
82 65.7 52.4 78.6

119 32.7 24.6 36.8

Manual Integrations
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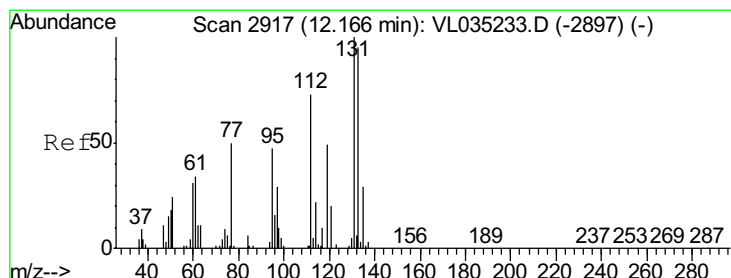
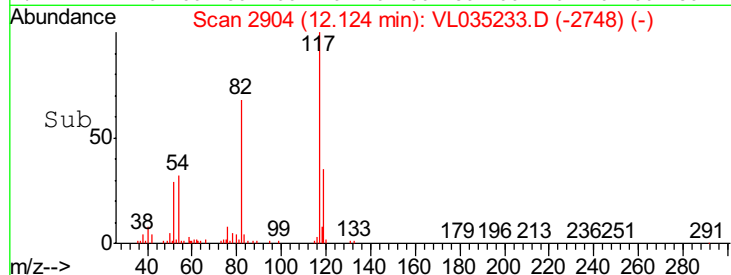
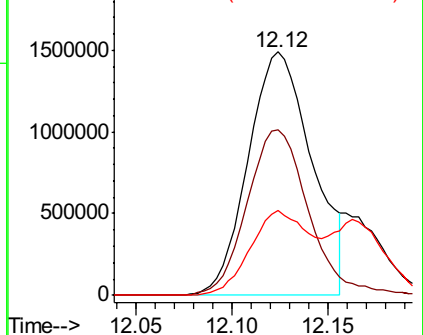
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Abundance Ion 117.10 (116.80 to 117.80): V

2000000 Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.590 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

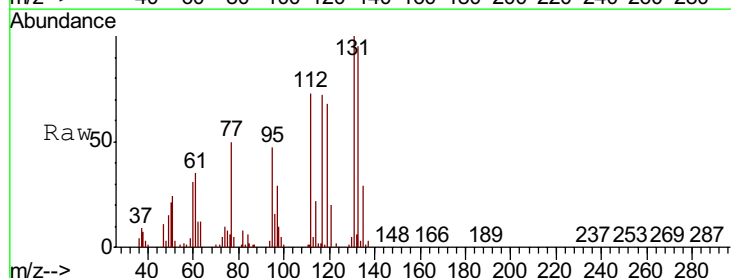
Tgt Ion:131 Resp: 1490774

Ion Ratio Lower Upper

131 100

133 95.1 76.1 114.1

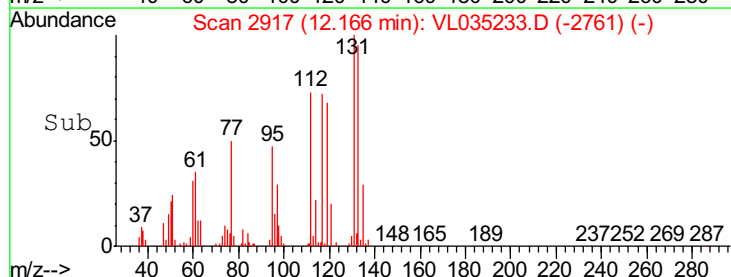
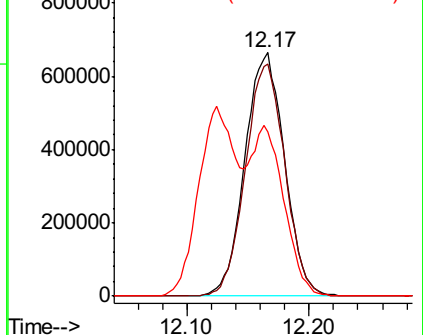
119 55.4 44.3 66.5

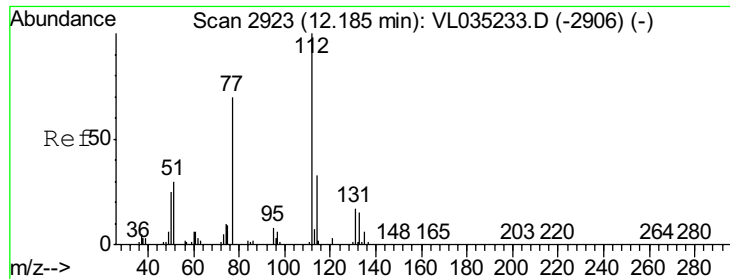


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.469 ppbv

RT: 12.18 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:112 Resp: 2452897

Ion Ratio Lower Upper

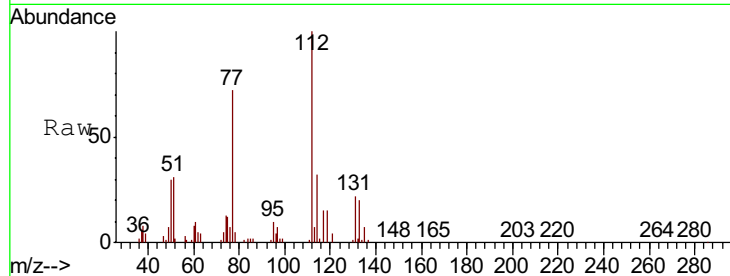
112 100

77 71.6 57.3 85.9

114 32.5 29.3 35.8

Manual Integrations
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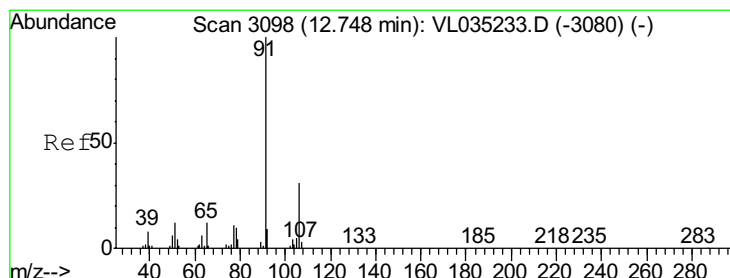
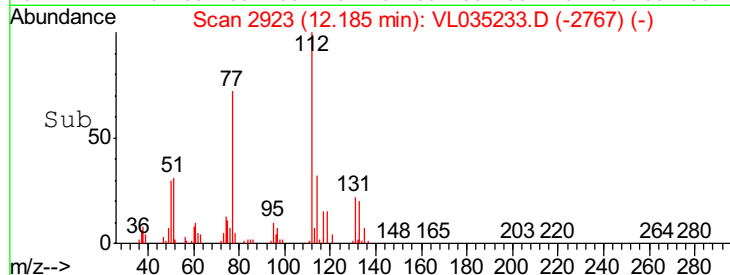
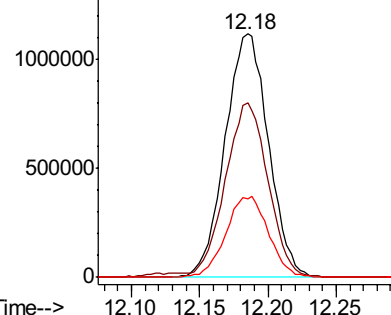
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.803 ppbv

RT: 12.75 min Scan# 3098

Delta R.T. 0.00 min

Lab File: VL035233.D

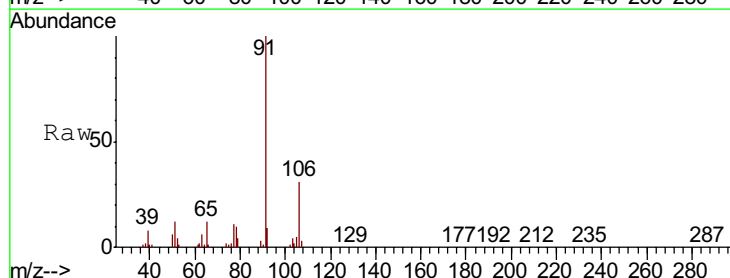
Acq: 29 Jul 2020 2:44

Tgt Ion: 91 Resp: 4180253

Ion Ratio Lower Upper

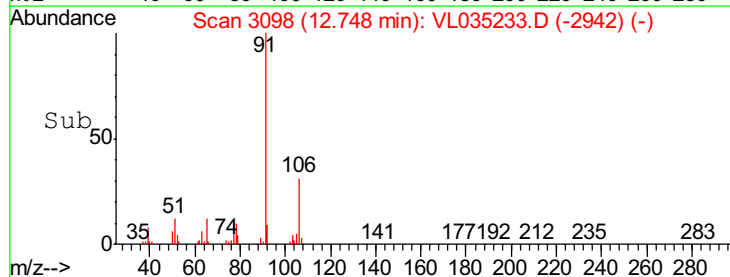
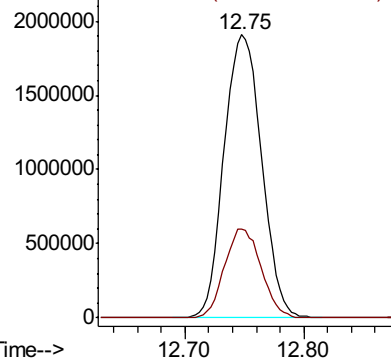
91 100

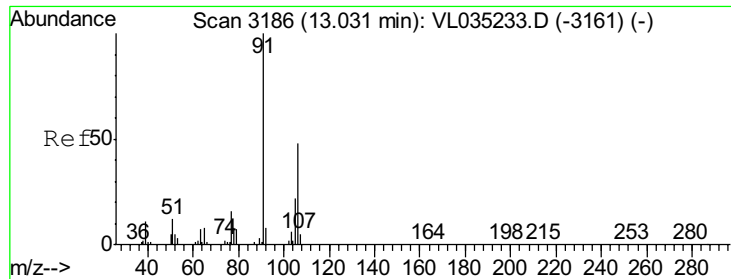
106 31.3 25.0 37.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.532 ppbv m

RT: 13.03 min Scan# 3186

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion: 91 Resp: 7102203

Ion Ratio Lower Upper

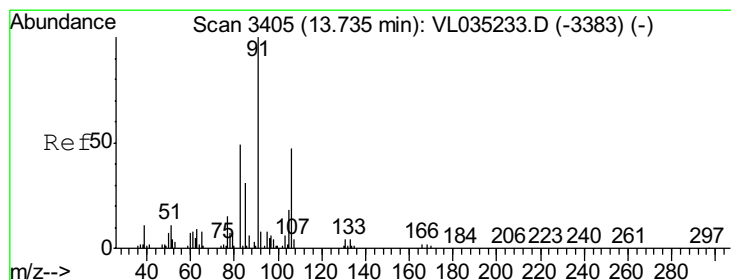
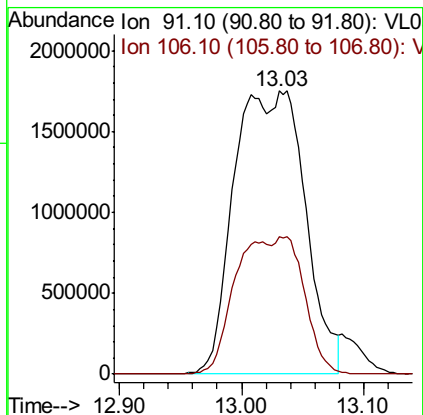
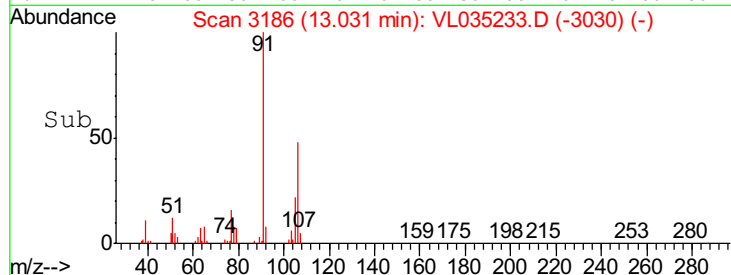
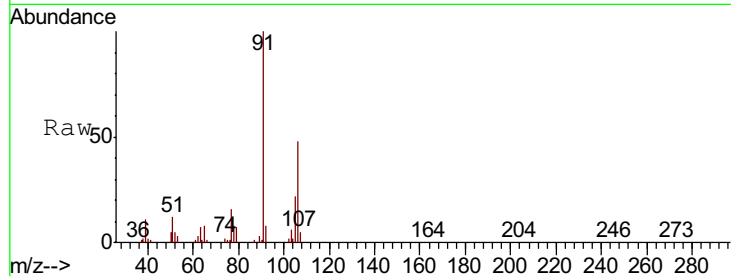
91 100

106 46.4 37.2 55.8

Manual Integrations
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#60

o-Xylene

Concen: 10.352 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. 0.00 min

Lab File: VL035233.D

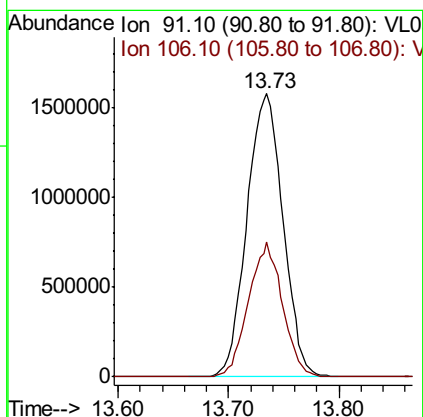
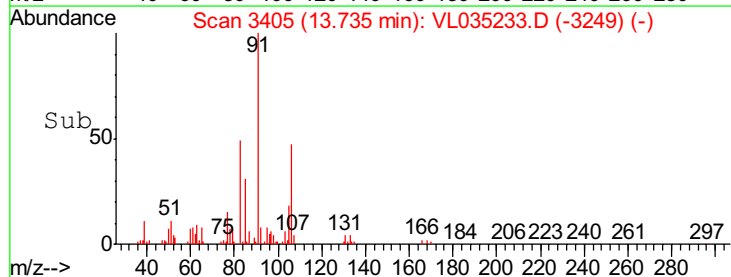
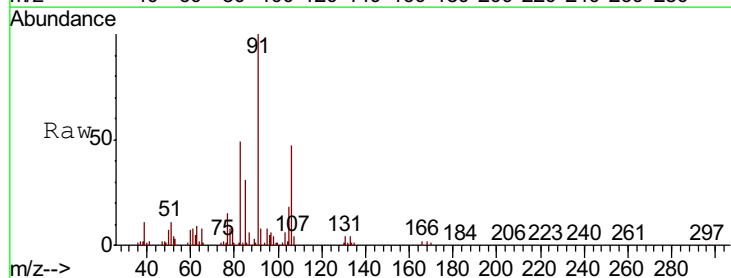
Acq: 29 Jul 2020 2:44

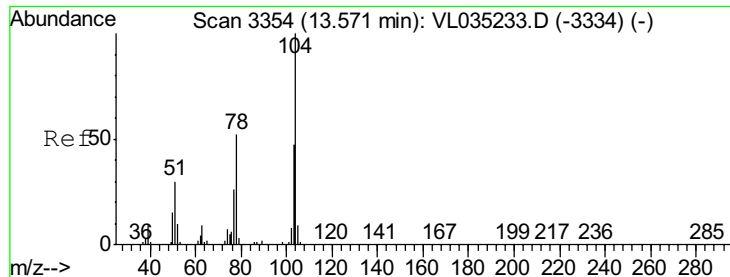
Tgt Ion: 91 Resp: 3572742

Ion Ratio Lower Upper

91 100

106 44.7 22.4 67.0





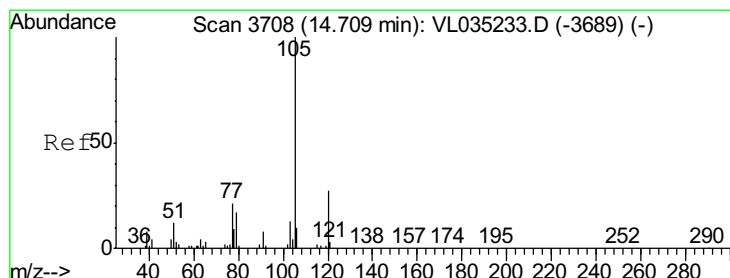
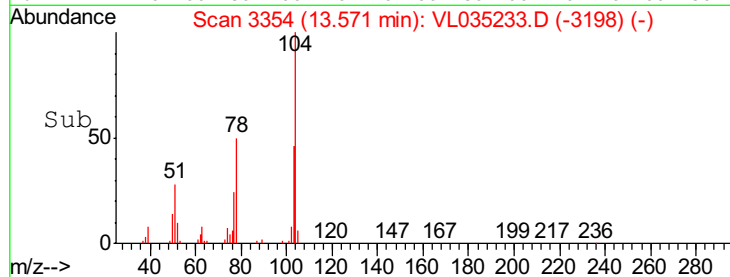
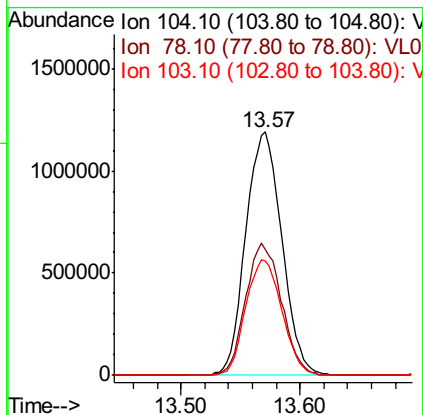
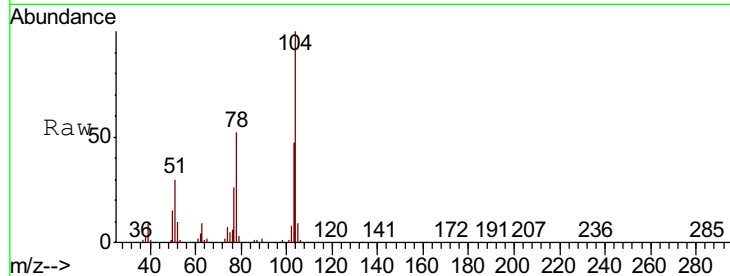
#61
Stvrene
Concen: 11.756 ppbv
RT: 13.57 min Scan# 3354
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion:104 Resp: 2505505
Ion Ratio Lower Upper
104 100
78 54.1 43.3 64.9
103 47.7 38.2 57.2

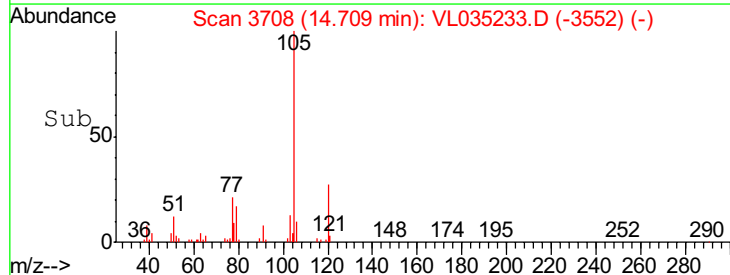
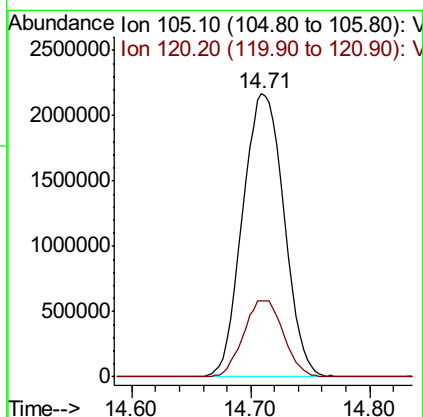
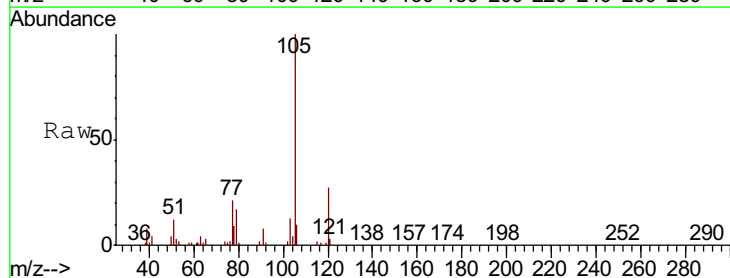
Manual Integrations
APPROVED

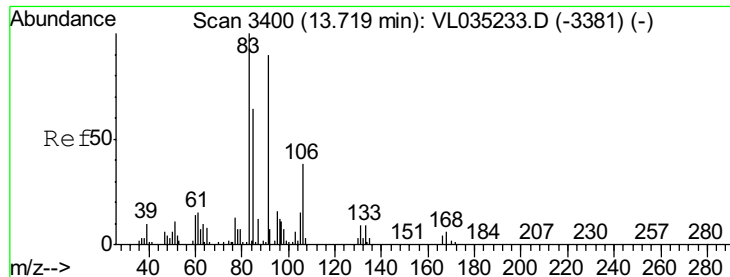
MMDadoda
7/30/2020 6:10:17 PM



#62
Isopropylbenzene
Concen: 10.218 ppbv
RT: 14.71 min Scan# 3708
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion:105 Resp: 5228181
Ion Ratio Lower Upper
105 100
120 26.0 20.8 31.2





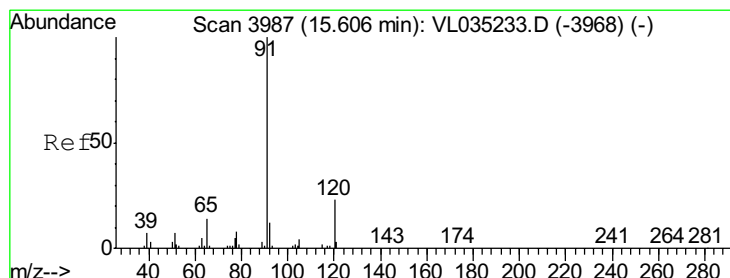
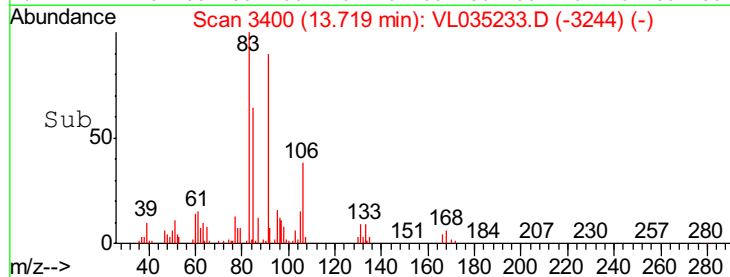
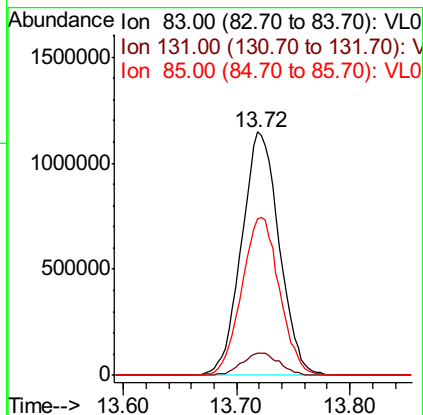
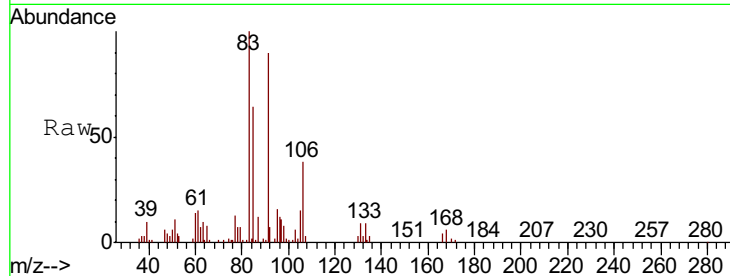
#63
1,1,2,2-Tetrachloroethane
Concen: 9.186 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 83 Resp: 2648267
Ion Ratio Lower Upper
83 100
131 9.2 4.6 13.8
85 65.4 32.7 98.1

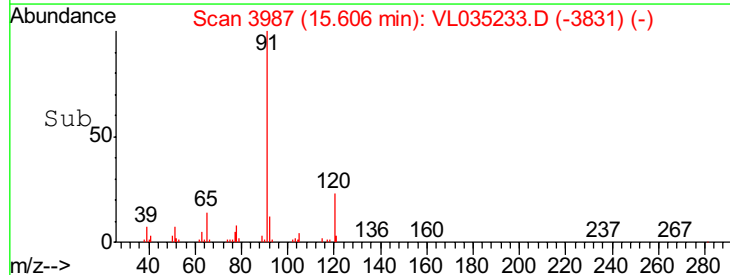
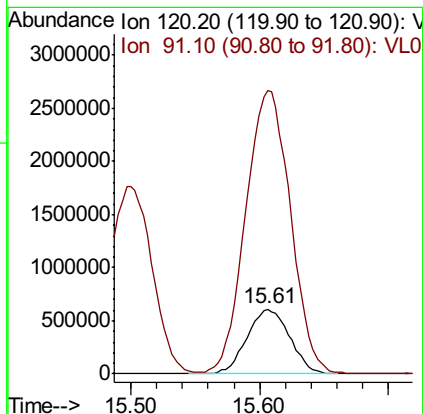
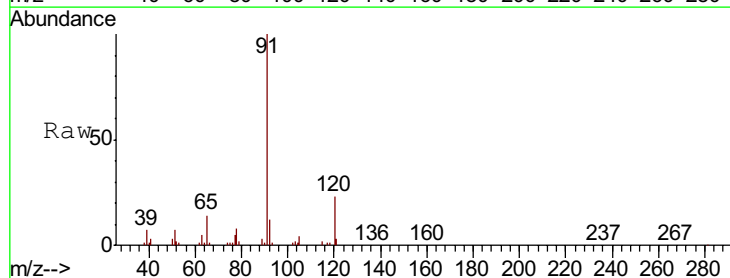
Manual Integrations
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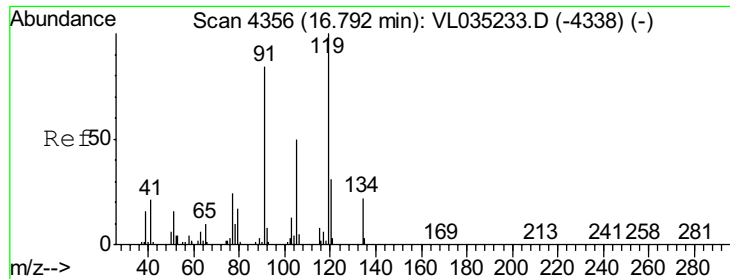
MMDadoda
7/30/2020 6:10:17 PM



#64
n-propylbenzene
Concen: 10.637 ppbv
RT: 15.61 min Scan# 3987
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 120 Resp: 1408991
Ion Ratio Lower Upper
120 100
91 459.5 367.5 551.3





#65

tert-Butylbenzene

Concen: 10.172 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:119 Resp: 4672531

Ion Ratio Lower Upper

119 100

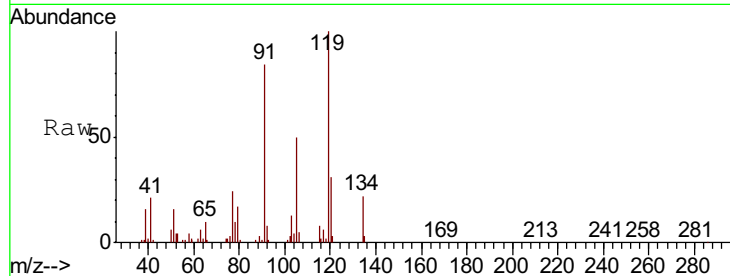
91 85.0 68.0 102.0

134 20.4 16.3 24.5

Manual Integrations
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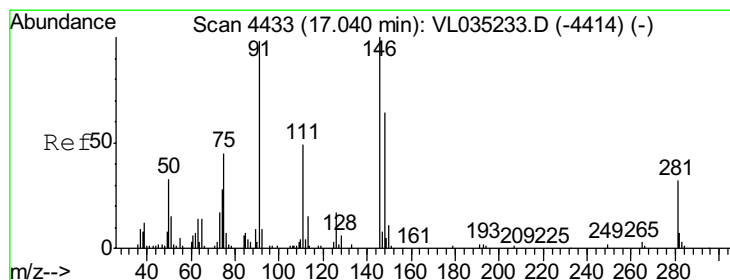
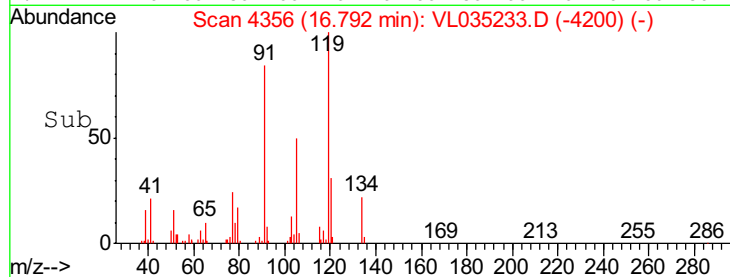
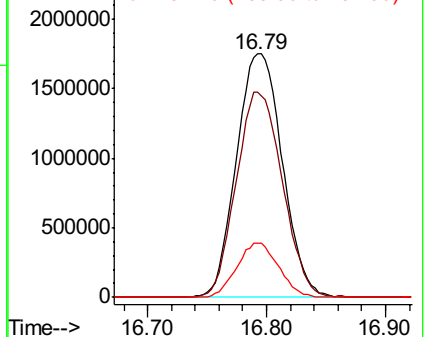
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.886 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

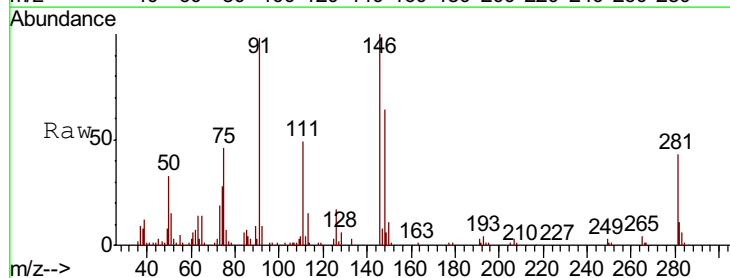
Tgt Ion: 91 Resp: 1966662

Ion Ratio Lower Upper

91 100

126 17.6 14.1 21.1

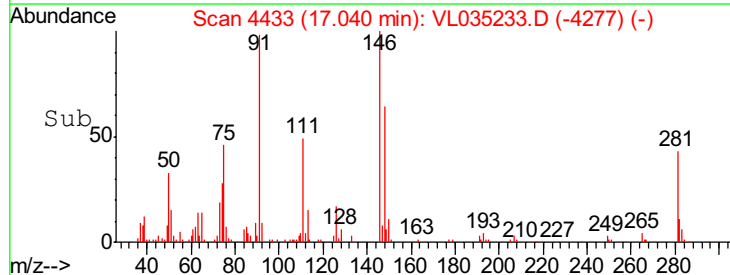
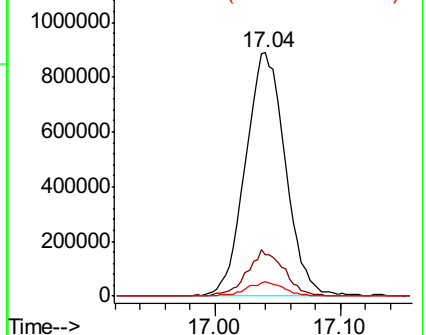
128 5.5 4.4 6.6

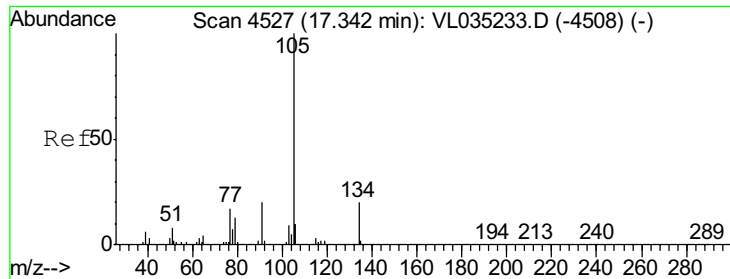


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.995 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampled :

VSTICCC010

Tot Ion:105 Resp: 6687821

Ion Ratio Lower Upper

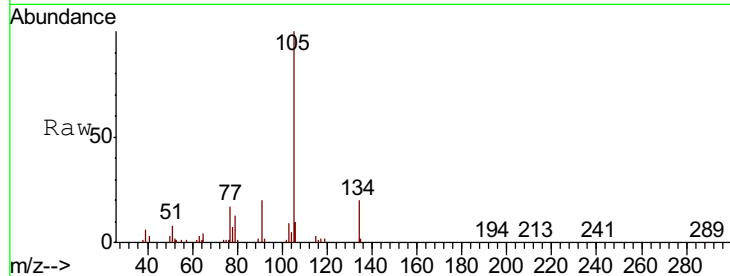
105 100

134 18.7 15.0 22.4

Manual Integrations
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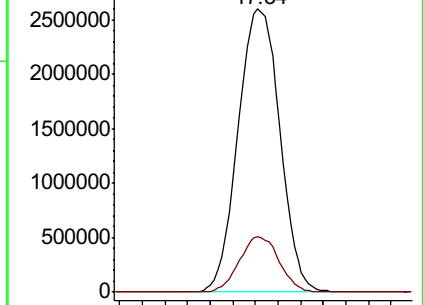
MMDadoda

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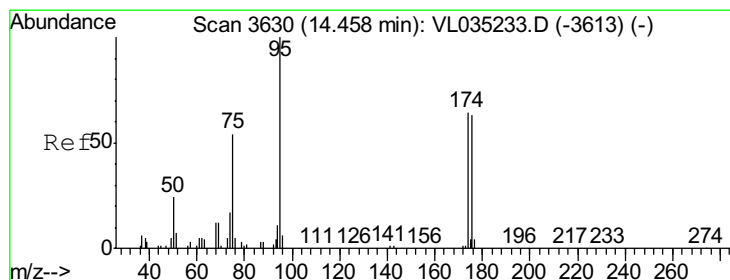
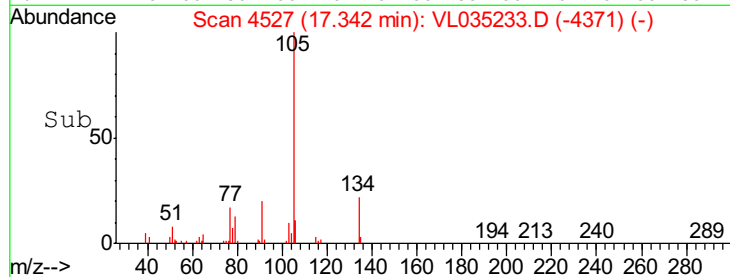


Abundance Ion 105.10 (104.80 to 105.80): V

3000000 Ion 134.20 (133.90 to 134.90): V



Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.769 ppbv

RT: 14.46 min Scan# 3630

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

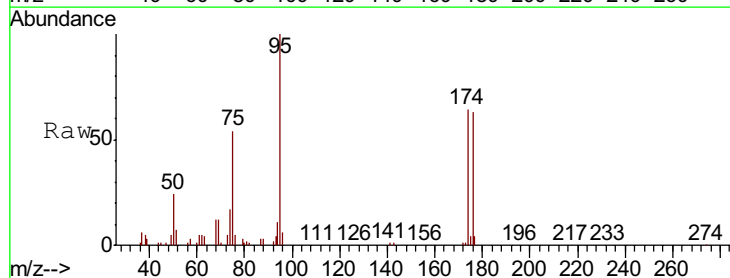
Tgt Ion: 95 Resp: 2752031

Ion Ratio Lower Upper

95 100

174 65.8 52.7 79.1

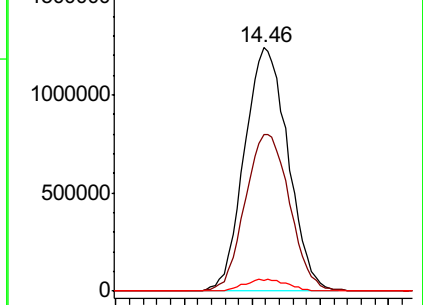
175 4.9 3.9 5.9



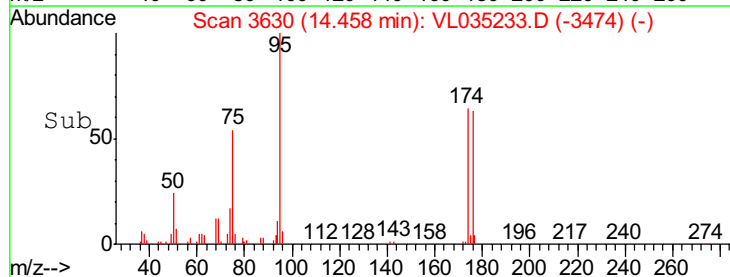
Abundance Ion 95.10 (94.80 to 95.80): VL0

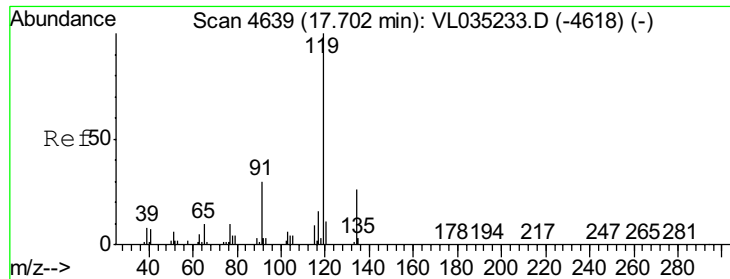
Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



Time-->





#69

p-Isopropyltoluene

Concen: 10.731 ppbv

RT: 17.70 min Scan# 4639

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:119 Resp: 5669477

Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.8	31.2
91	30.9	24.7	37.1

119 100

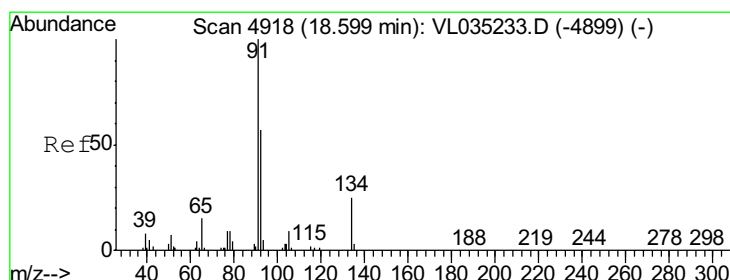
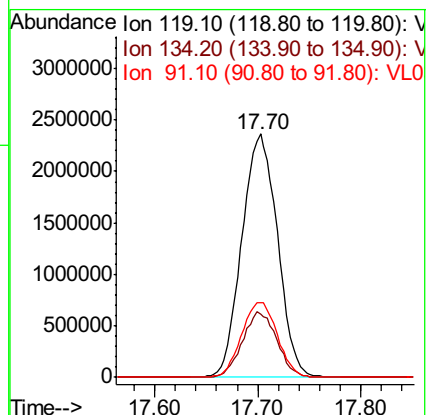
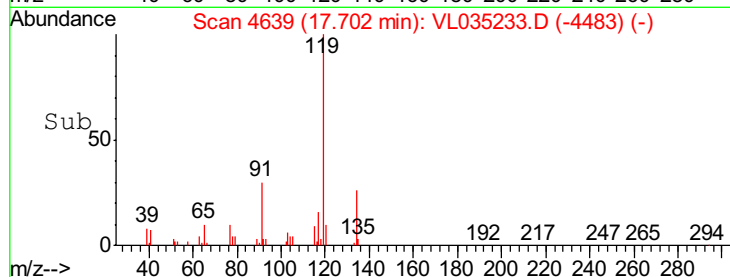
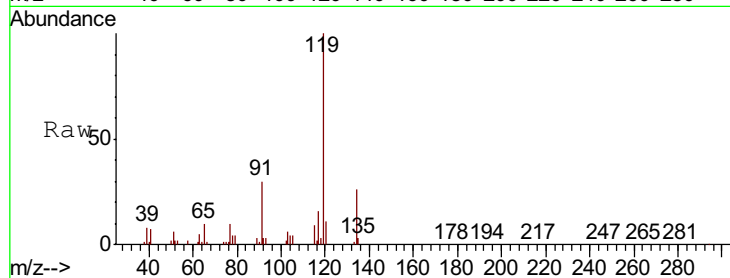
134 26.0 20.8 31.2

91 30.9 24.7 37.1

Manual Integrations
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#70

n-Butylbenzene

Concen: 10.622 ppbv

RT: 18.60 min Scan# 4918

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

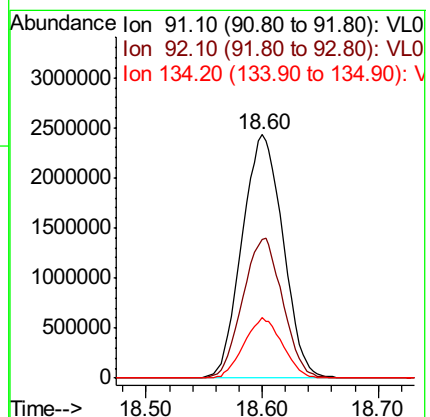
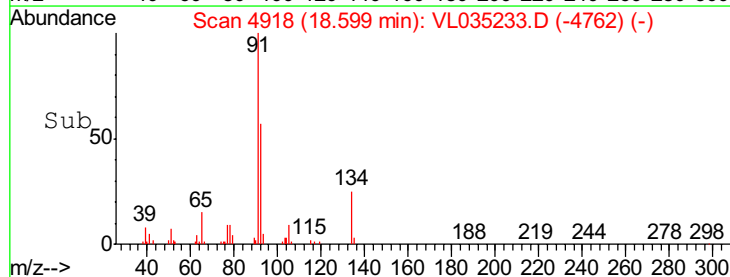
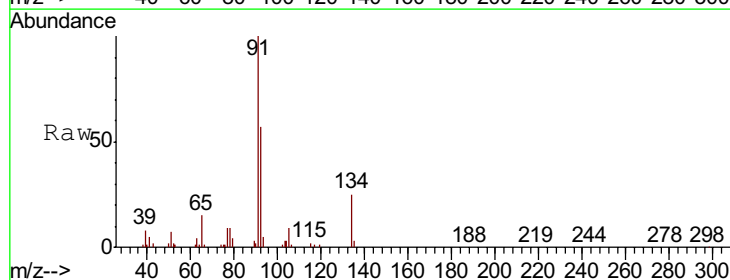
Tgt Ion: 91 Resp: 5952104

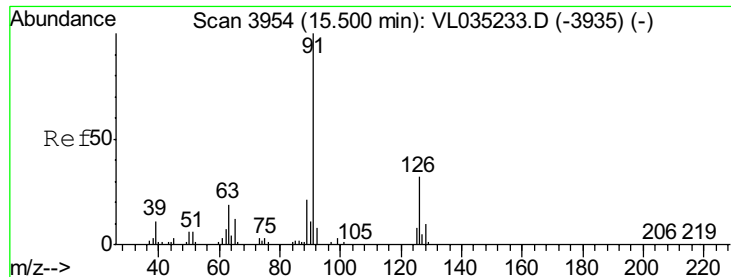
Ion	Ratio	Lower	Upper
91	100		
92	56.1	44.9	67.3
134	23.3	18.6	28.0

91 100

92 56.1 44.9 67.3

134 23.3 18.6 28.0





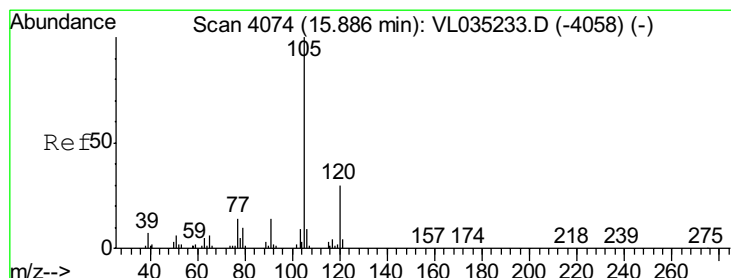
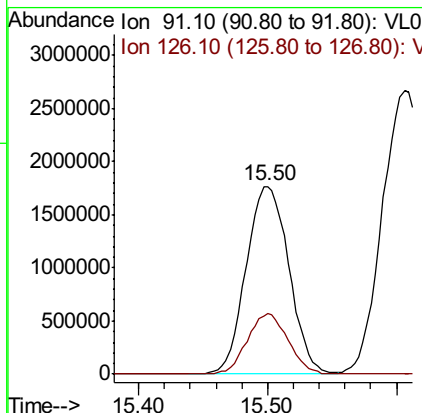
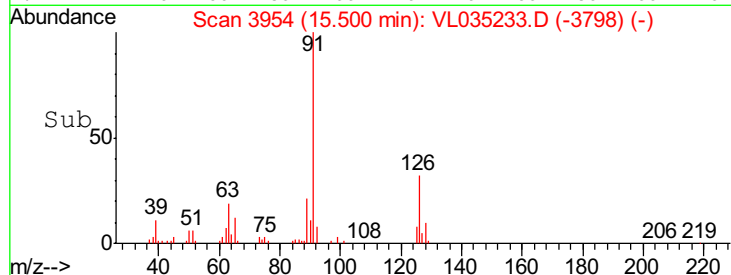
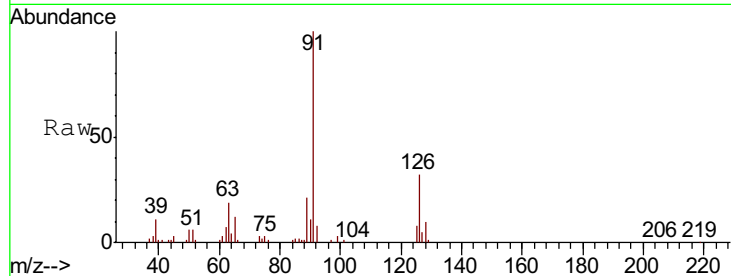
#71
2-Chlorotoluene
Concen: 10.548 ppbv
RT: 15.50 min Scan# 3954
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

Tot Ion: 91 Resp: 4085759
Ion Ratio Lower Upper
91 100
126 30.7 12.3 49.1

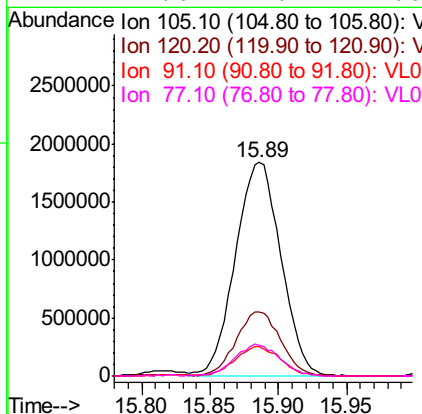
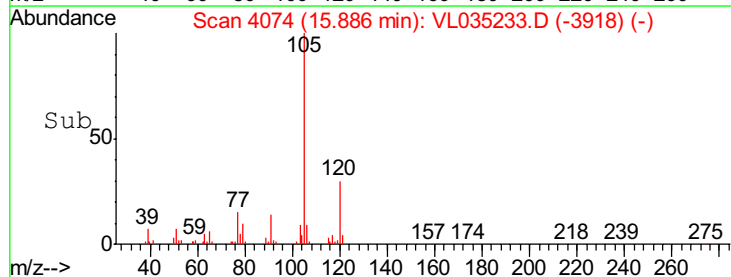
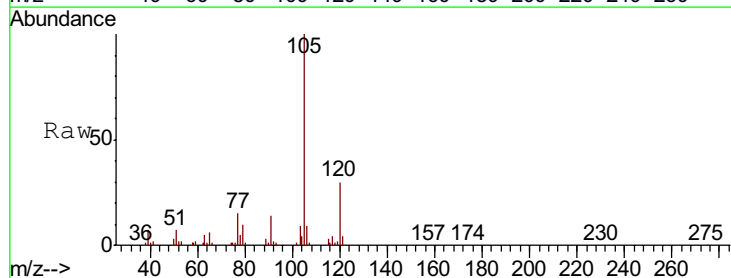
Manual Integrations
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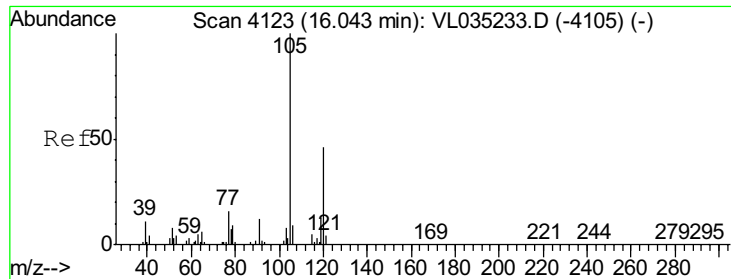
MMDadoda
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#72
4-Ethyltoluene
Concen: 10.923 ppbv
RT: 15.89 min Scan# 4074
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion: 105 Resp: 4261562
Ion Ratio Lower Upper
105 100
120 30.1 23.6 35.4
91 13.6 11.0 16.6
77 14.6 11.7 17.5





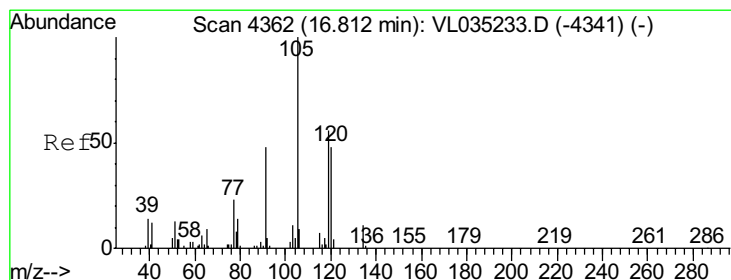
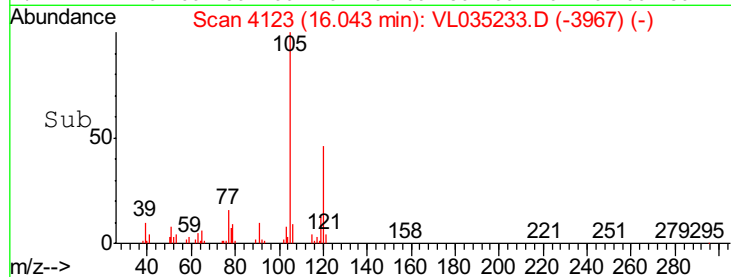
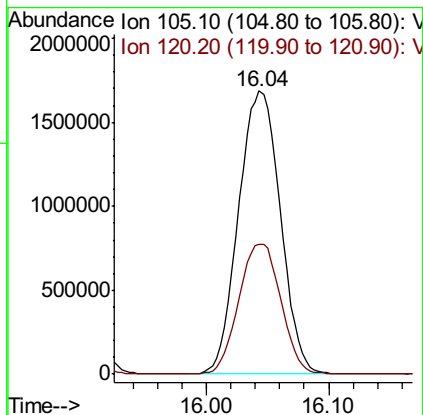
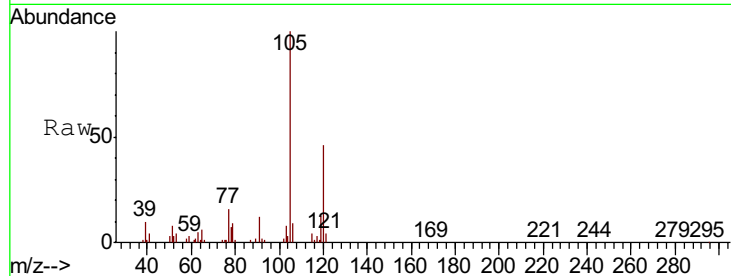
#73
 1,3,5-Trimethylbenzene
 Concen: 10.613 ppbv
 RT: 16.04 min Scan# 4123
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion:105 Resp: 3983780
 Ion Ratio Lower Upper
 105 100
 120 46.0 36.8 55.2

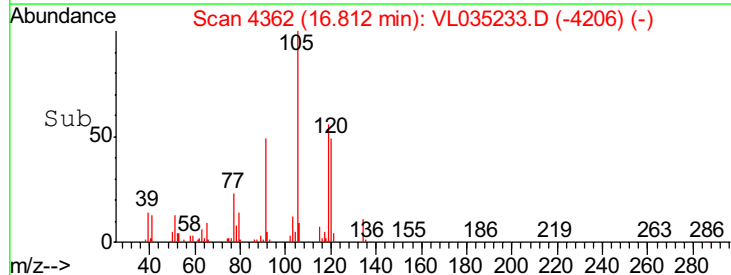
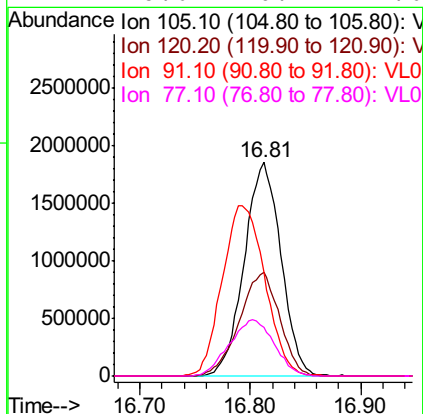
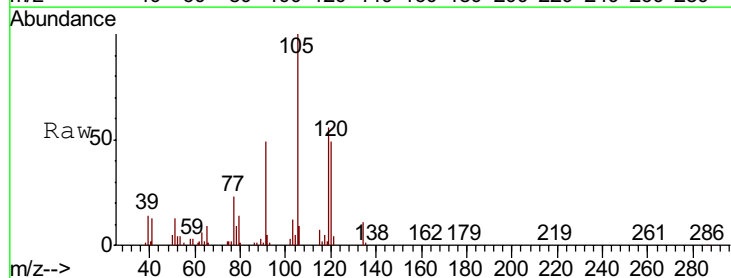
Manual Integrations
 APPROVED

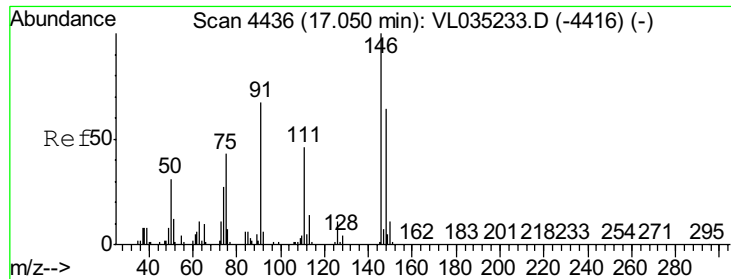
MMDadoda
 7/30/2020 6:10:17 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 10.244 ppbv
 RT: 16.81 min Scan# 4362
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Tgt Ion:105 Resp: 4270116
 Ion Ratio Lower Upper
 105 100
 120 48.5 38.8 58.2
 91 48.6 38.9 58.3
 77 23.0 18.4 27.6





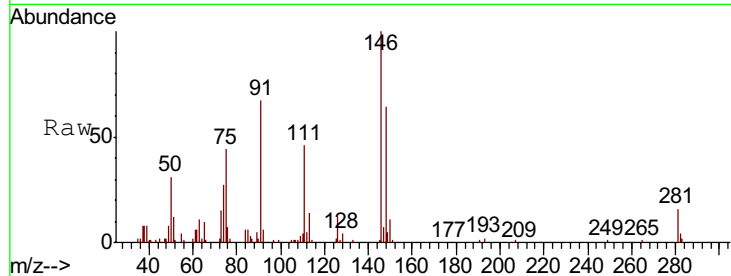
#75
1,3-Dichlorobenzene
Concen: 9.512 ppbv
RT: 17.05 min Scan# 4436
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampleId :
VSTICCC010

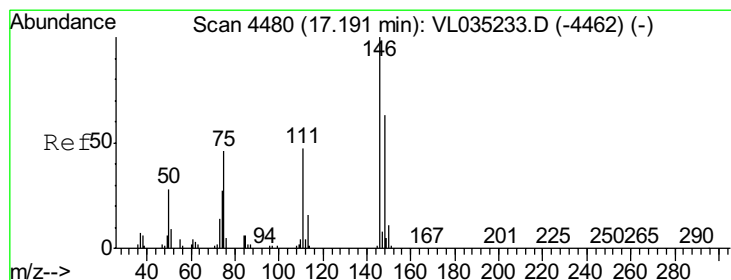
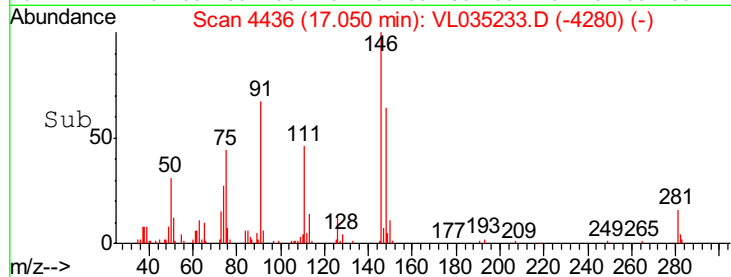
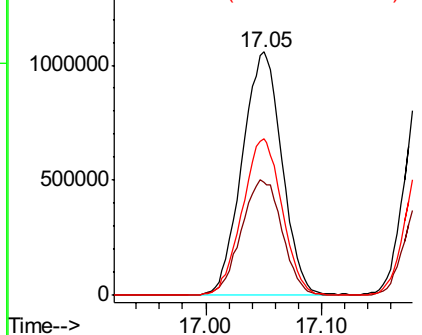
Tot Ion:146 Resp: 2520482
Ion Ratio Lower Upper
146 100
111 48.9 24.4 73.4
148 64.3 32.1 96.5

Manual Integrations
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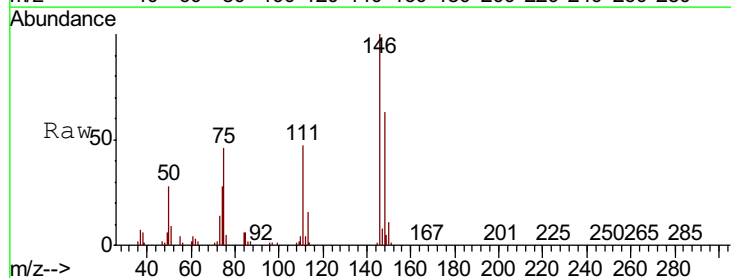


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V

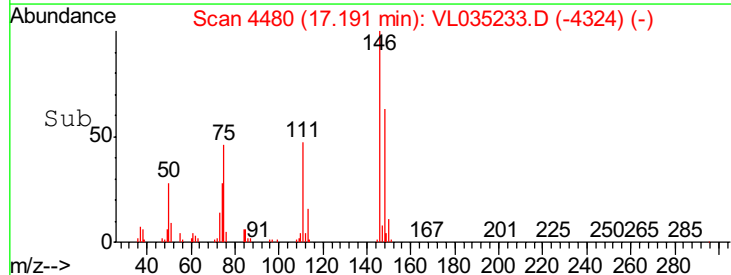
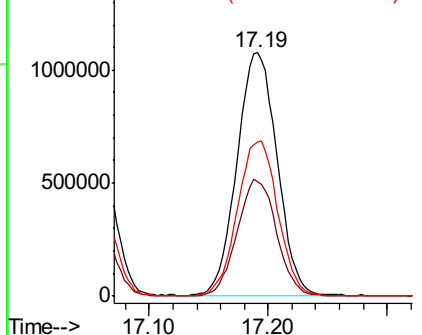


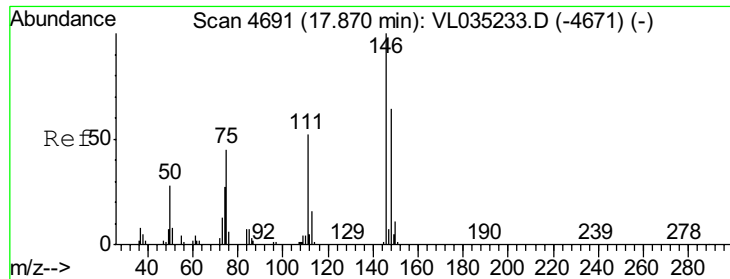
#76
1,4-Dichlorobenzene
Concen: 10.233 ppbv
RT: 17.19 min Scan# 4480
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion:146 Resp: 2517092
Ion Ratio Lower Upper
146 100
111 47.0 23.4 70.2
148 64.4 32.2 96.6



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





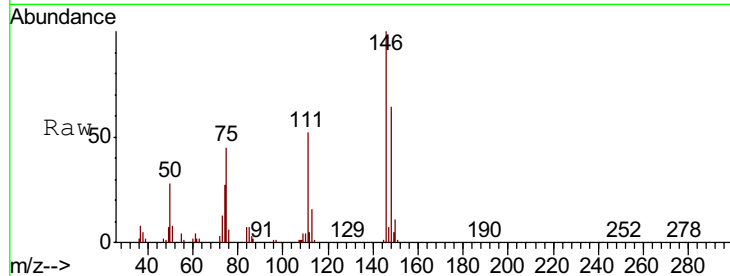
#77
1,2-Dichlorobenzene
Concen: 10.189 ppbv
RT: 17.87 min Scan# 4691
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Instrument :
MSVOA_L
ClientSampled :
VSTICCC010

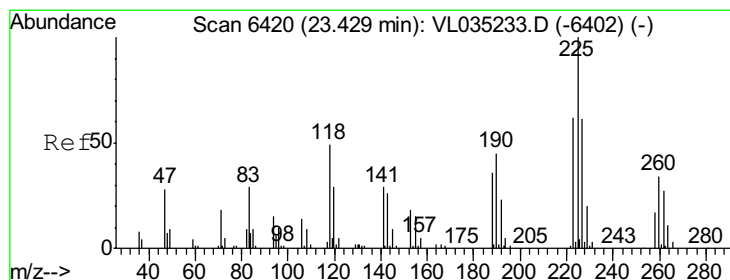
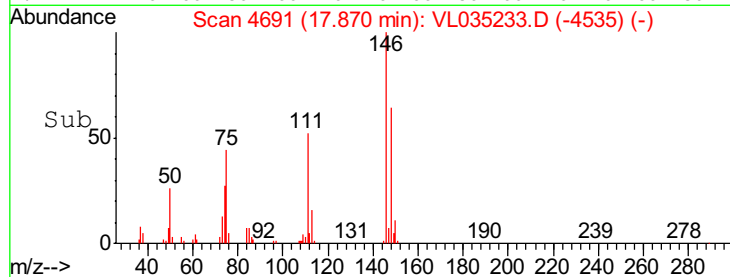
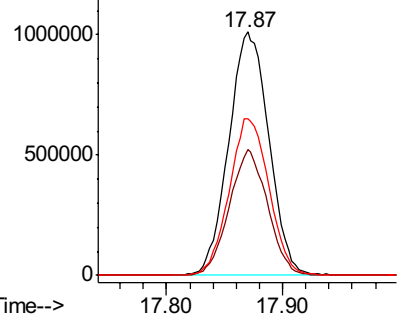
Tot Ion:146 Resp: 2435482
Ion Ratio Lower Upper
146 100
111 49.2 24.6 73.8
148 64.0 32.0 96.0

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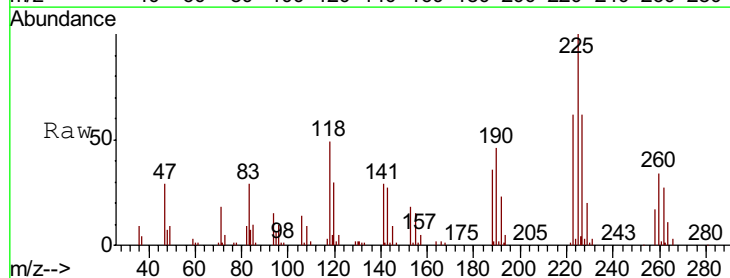


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V

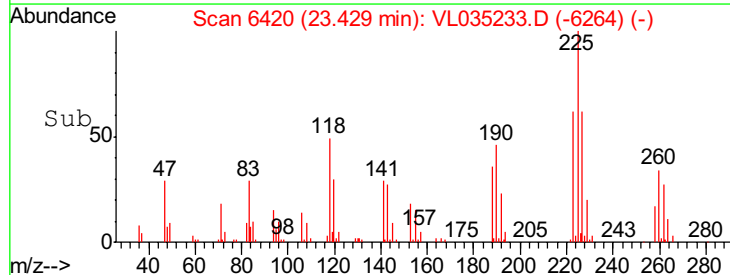
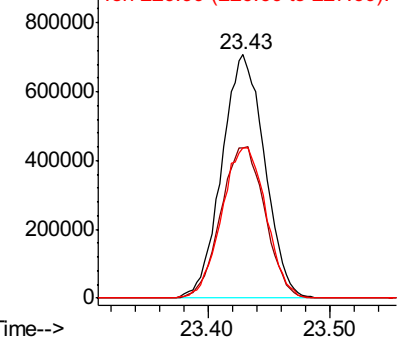


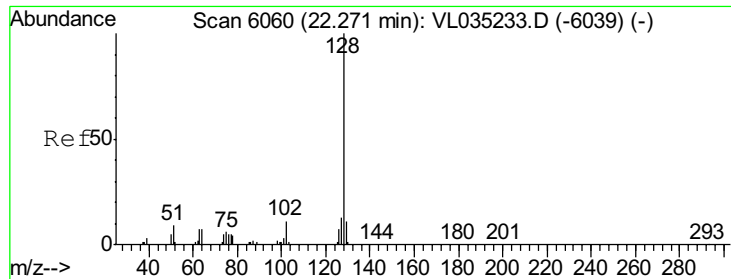
#78
Hexachloro-1,3-Butadiene
Concen: 9.168 ppbv
RT: 23.43 min Scan# 6420
Delta R.T. 0.00 min
Lab File: VL035233.D
Acq: 29 Jul 2020 2:44

Tgt Ion:225 Resp: 1716760
Ion Ratio Lower Upper
225 100
223 64.1 51.3 76.9
227 64.3 51.4 77.2



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 13.887 ppbv

RT: 22.27 min Scan# 6060

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

Instrument :

MSVOA_L

ClientSampleId :

VSTICCC010

Tot Ion:128 Resp: 3848357

Ion Ratio Lower Upper

128 100

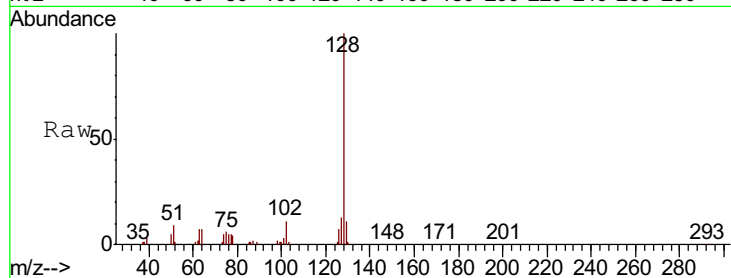
127 13.0 10.4 15.6

129 10.6 8.5 12.7

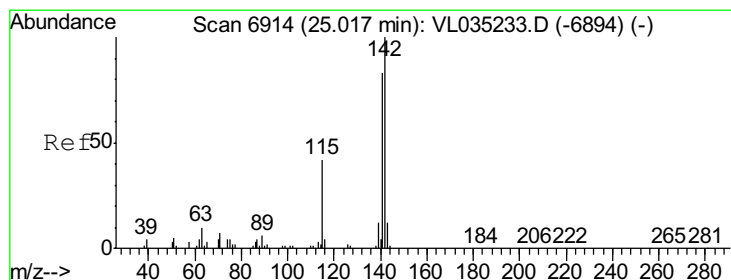
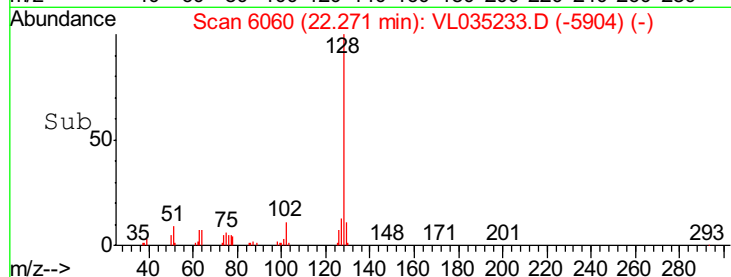
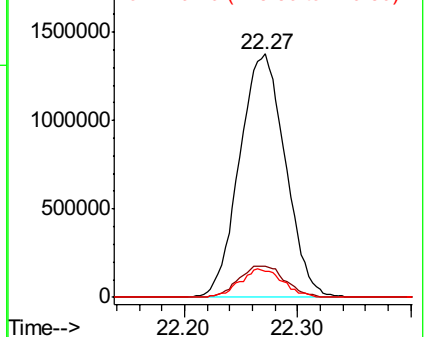
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 20.895 ppbv

RT: 25.02 min Scan# 6914

Delta R.T. 0.00 min

Lab File: VL035233.D

Acq: 29 Jul 2020 2:44

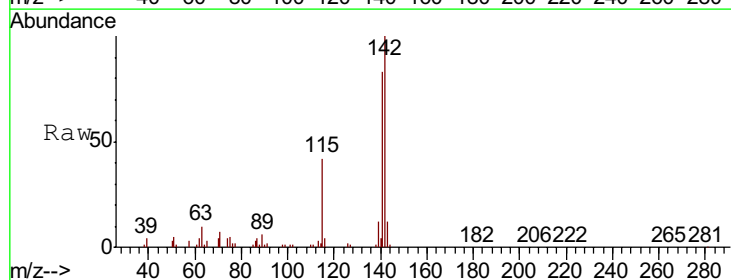
Tgt Ion:142 Resp: 1379510

Ion Ratio Lower Upper

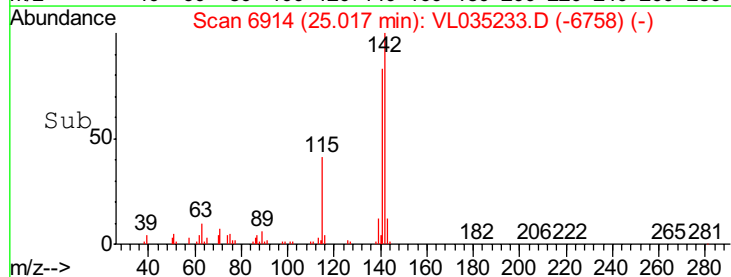
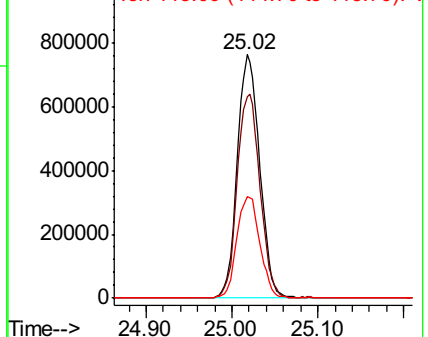
142 100

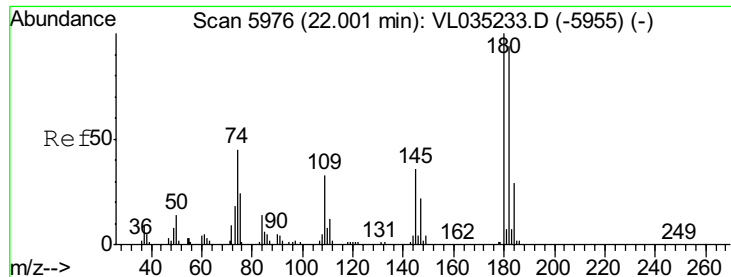
141 85.8 68.6 103.0

115 43.0 34.5 51.7



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: 12.290 ppbv
 RT: 22.00 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL035233.D
 Acq: 29 Jul 2020 2:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTICCC010

Tot Ion:180 Resp: 2148948
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.7 115.1
 184 30.9 24.7 37.1

Manual Integrations
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