

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035426.D
 Acq On : 17 Aug 2020 18:05
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:05:48 AM

Quant Time: Aug 17 19:26:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 2020
 QLast Update : Mon Aug 17 09:05:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1056260	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	4966334	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.12	117	5357727	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	3647140	8.04	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	80.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	2182229	15.559	ppbv 97
3) Chlorodifluoromethane	2.99	51	1753745	12.956	ppbv # 91
4) Chloromethane	3.14	50	946284	13.272	ppbv 98
5) Vinyl Chloride	3.26	62	1121752	15.486	ppbv 97
6) Bromomethane	3.48	94	984854	24.790	ppbv 98
7) Chloroethane	3.56	64	415334	17.284	ppbv 95
8) Dichlorotetrafluoroethane	3.19	85	2943429	18.409	ppbv # 56
9) Propene	3.01	41	713460	11.109	ppbv 100
10) Heptane	8.15	43	1882772	11.597	ppbv # 79
11) Trichlorofluoromethane	3.96	101	3882494	23.063	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.50	101	2985184	27.232	ppbv # 76
13) Ethanol	3.61	45	175359	8.550	ppbv 99
14) Bromoethene	3.75	108	1386214	28.820	ppbv # 95
15) Acetone	3.86	43	1458211	10.491	ppbv # 82
16) 1,3-Butadiene	3.33	39	687527	10.798	ppbv # 67
17) tert-Butyl alcohol	4.30	59	2072392	15.709	ppbv 98
18) 1,1-Dichloroethene	4.30	96	1397103	28.363	ppbv # 58
19) Isopropyl Alcohol	3.98	45	1050514	10.717	ppbv # 99
20) Methylene Chloride	4.36	84	1143786	22.183	ppbv # 63
21) Allyl Chloride	4.42	41	911144	11.218	ppbv # 82
22) trans-1,2-Dichloroethene	4.90	96	1497380	30.517	ppbv # 63
23) Vinyl Acetate	5.09	43	2482099	12.183	ppbv # 93
24) 1,1-Dichloroethane	5.03	63	2307714	15.889	ppbv # 93
25) Ethyl Acetate	5.70	43	2996234	10.764	ppbv # 92
26) Hexane	5.71	57	1712115	14.157	ppbv # 75
27) Carbon Disulfide	4.56	76	2878207	24.443	ppbv # 86
28) Methyl tert-Butyl Ether	5.05	73	3284182	17.597	ppbv 93
29) Chloroform	5.77	83	3545539	19.089	ppbv 95
30) Cyclohexane	7.15	84	2061428	21.468	ppbv # 60
31) cis-1,2-Dichloroethene	5.57	61	1940527	15.753	ppbv # 64
32) 1,1,1-Trichloroethane	6.54	97	3709982	20.035	ppbv # 89
34) 2-Butanone	5.26	43	2178980	5.689	ppbv # 73
35) Carbon Tetrachloride	7.04	117	3990670	10.816	ppbv 98
36) Benzene	6.92	78	4559333	9.046	ppbv # 94
37) 1,2-Dichloroethane	6.33	62	2210204	7.111	ppbv # 89
38) Trichloroethene	7.86	130	2586397	13.273	ppbv # 83
39) 1,2-Dichloropropane	7.64	63	1569625	7.728	ppbv # 86
40) 1,4-Dioxane	7.86	88	768699	9.782	ppbv # 29
41) Tetrahydrofuran	6.07	42	1268327	5.889	ppbv # 62
42) Bromodichloromethane	7.82	83	3814818	9.597	ppbv # 98
43) Methyl Methacrylate	8.04	69	1957532	8.923	ppbv # 58

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Manual Integrations
 APPROVED

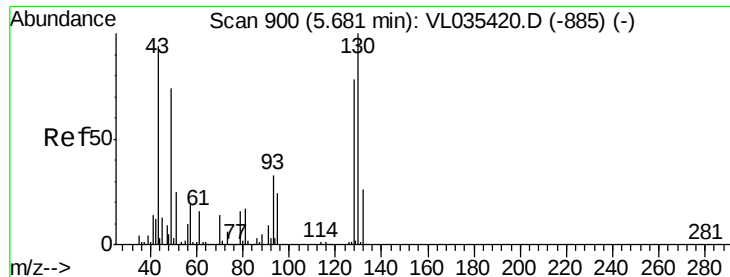
MMDadoda
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Quant Time: Aug 17 19:26:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.90	57	5630248	6.391	ppbv #	93
45) t-1,3-Dichloropropene	9.31	75	2362616	10.250	ppbv	96
46) cis-1,3-Dichloropropene	8.74	75	2717209	9.736	ppbv #	76
47) 1,1,2-Trichloroethane	9.51	97	2341040	11.461	ppbv	93
48) Dibromochloromethane	10.34	129	4341319	14.594	ppbv	100
49) Bromoform	13.08	173	4383704	18.746	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	3125010	5.640	ppbv #	80
51) 2-Hexanone	10.16	43	2758410	5.865	ppbv #	78
52) Tetrachloroethene	11.26	164	2848375	15.887	ppbv #	85
53) Toluene	9.84	91	5827675	10.153	ppbv	96
54) 1,2-Dibromoethane	10.65	107	3780294	11.992	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.16	131	3330885	12.634	ppbv	98
57) Chlorobenzene	12.19	112	5102898	10.546	ppbv #	82
58) Ethyl Benzene	12.75	91	7497146	8.452	ppbv #	77
59) m/p-Xylene	13.04	91	12567728m	16.983	ppbv	
60) o-Xylene	13.73	91	6205382	8.521	ppbv	83
61) Styrene	13.57	104	5426207	10.911	ppbv #	90
62) Isopropylbenzene	14.71	105	9360338	8.710	ppbv #	81
63) 1,1,2,2-Tetrachloroethane	13.72	83	4339754	7.680	ppbv	96
64) n-propylbenzene	15.60	120	3382743	12.417	ppbv #	33
65) tert-Butylbenzene	16.79	119	9204187	9.996	ppbv #	83
66) Benzyl Chloride	17.03	91	3699457	12.269	ppbv #	86
67) sec-Butylbenzene	17.34	105	11212144	8.246	ppbv #	76
69) p-Isopropyltoluene	17.70	119	10350422	9.349	ppbv #	89
70) n-Butylbenzene	18.60	91	9757093	7.539	ppbv #	85
71) 2-Chlorotoluene	15.49	91	7321781	8.327	ppbv	73
72) 4-Ethyltoluene	15.88	105	8044900	9.428	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.04	105	7560046	9.385	ppbv #	77
74) 1,2,4-Trimethylbenzene	16.81	105	7670324	8.893	ppbv #	89
75) 1,3-Dichlorobenzene	17.04	146	6123533	13.043	ppbv	91
76) 1,4-Dichlorobenzene	17.18	146	6236233	12.953	ppbv	91
77) 1,2-Dichlorobenzene	17.86	146	6142153	12.984	ppbv	91
78) Hexachloro-1,3-Butadiene	23.42	225	4614255	12.700	ppbv	97
79) Naphthalene	22.26	128	11206035	11.129	ppbv #	92
80) Naphthalene, 2-methyl-	25.01	142	5973142	14.217	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.99	180	7053401	14.779	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1056260

Ion Ratio Lower Upper

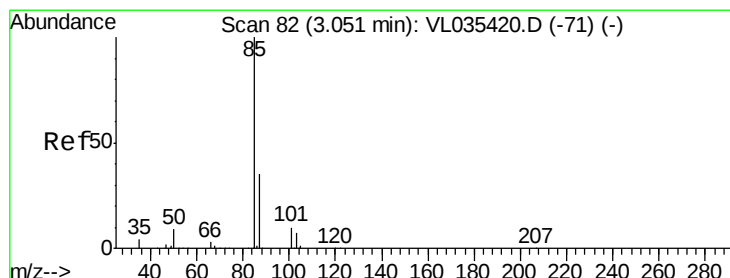
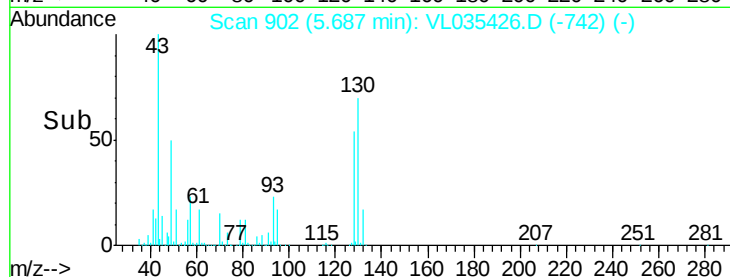
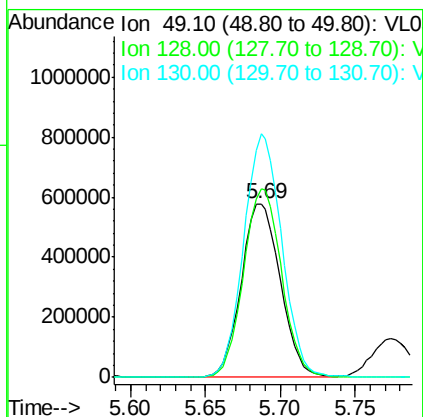
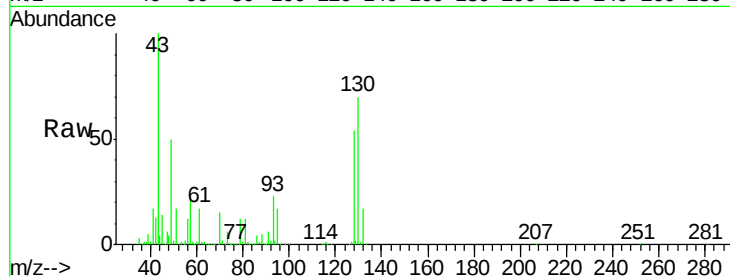
49 100

128 105.9 20.9 62.7#

130 136.7 26.7 80.1#

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#2

Dichlorodifluoromethane

Concen: 15.559 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL035426.D

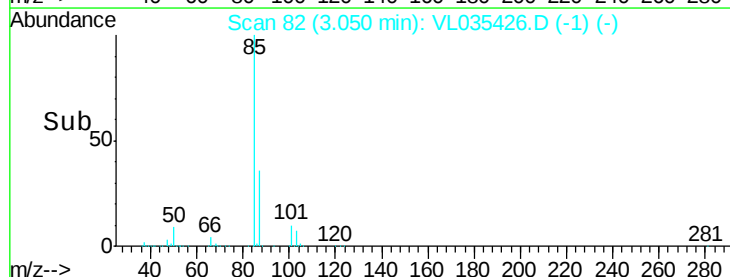
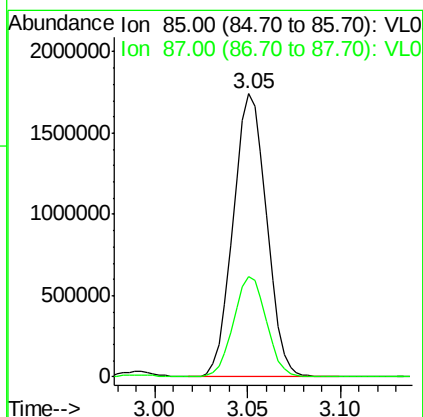
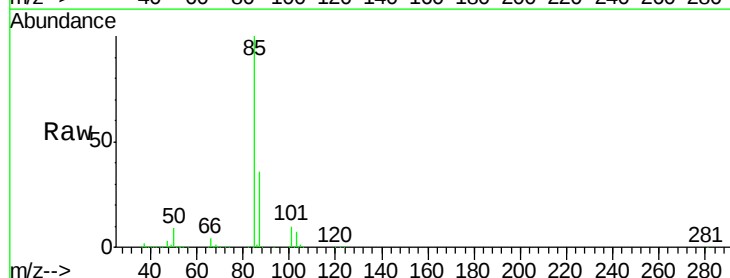
Acq: 17 Aug 2020 18:05

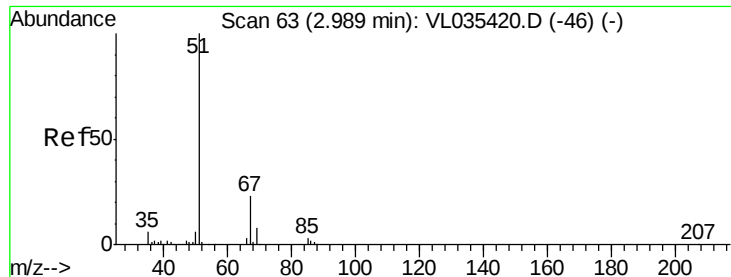
Tgt Ion: 85 Resp: 2182229

Ion Ratio Lower Upper

85 100

87 35.6 27.1 40.7





#3

Chlorodifluoromethane

Concen: 12.956 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 1753745

Ion Ratio Lower Upper

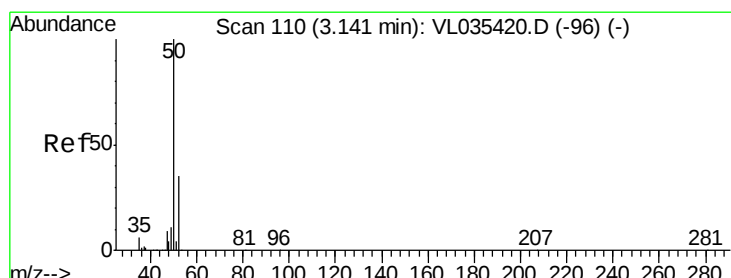
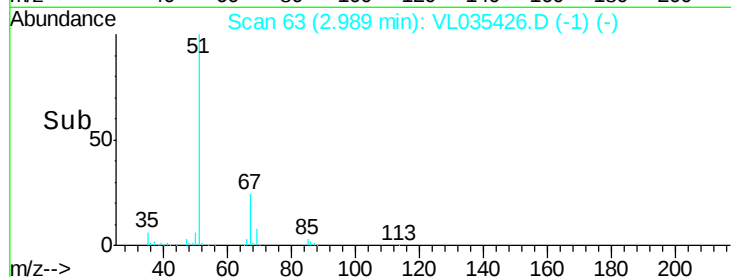
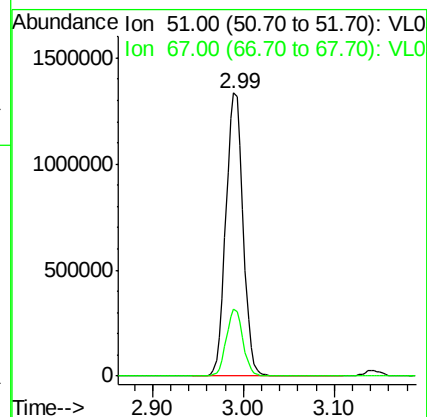
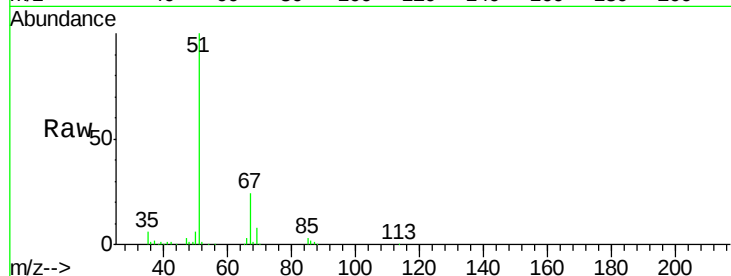
51 100

67 22.8 15.0 22.6#

Manual Integrations
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#4

Chloromethane

Concen: 13.272 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL035426.D

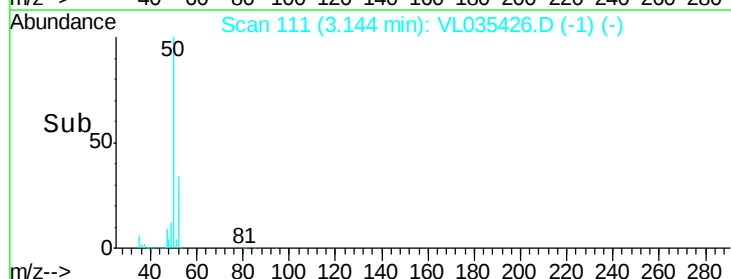
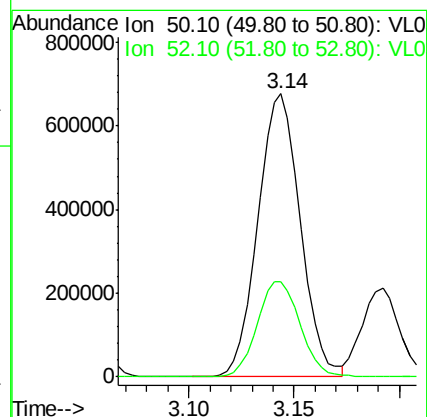
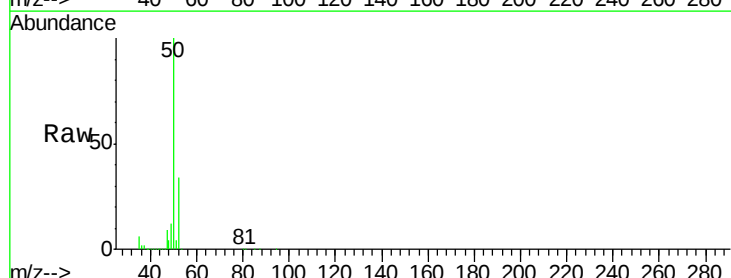
Acq: 17 Aug 2020 18:05

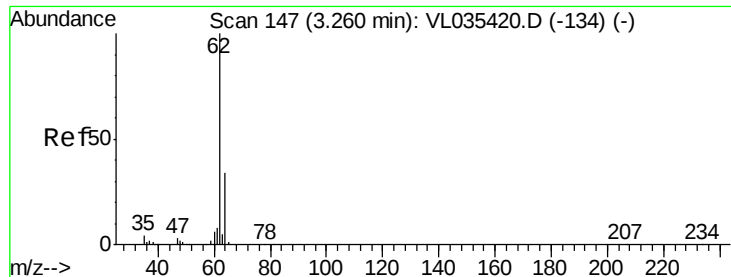
Tgt Ion: 50 Resp: 946284

Ion Ratio Lower Upper

50 100

52 33.8 25.9 38.9





#5

Vinyl Chloride

Concen: 15.486 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1121752

Ion Ratio Lower Upper

62 100

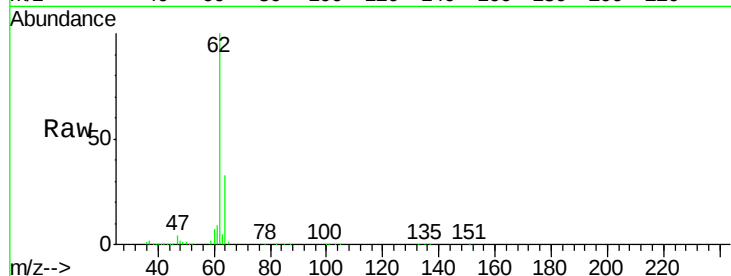
64 33.0 25.0 37.4

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

3.26

800000

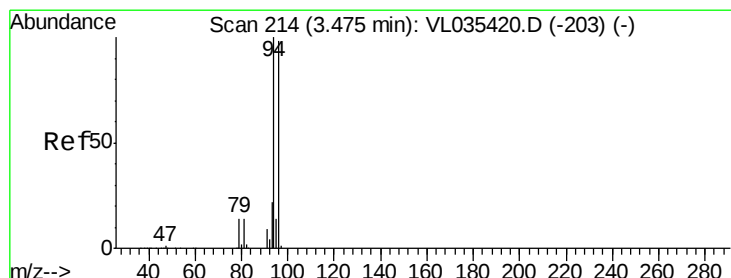
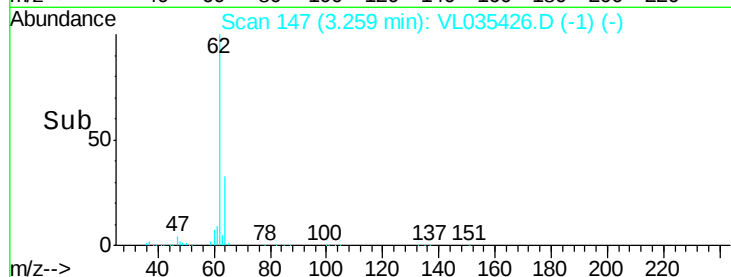
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 24.790 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.01 min

Lab File: VL035426.D

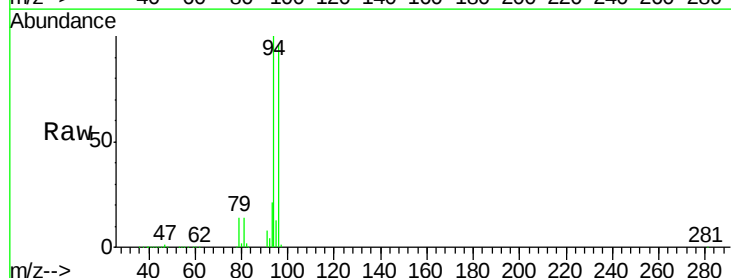
Acq: 17 Aug 2020 18:05

Tgt Ion: 94 Resp: 984854

Ion Ratio Lower Upper

94 100

96 96.1 75.0 112.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.48

800000

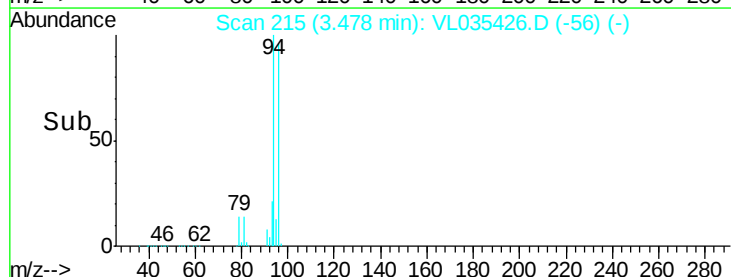
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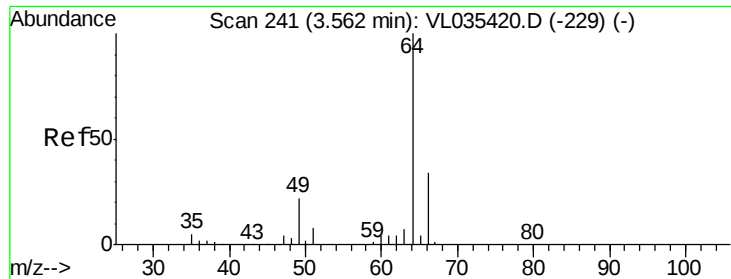
400000

200000

0

Time-->





#7

Chloroethane

Concen: 17.284 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 415334

Ion Ratio Lower Upper

64 100

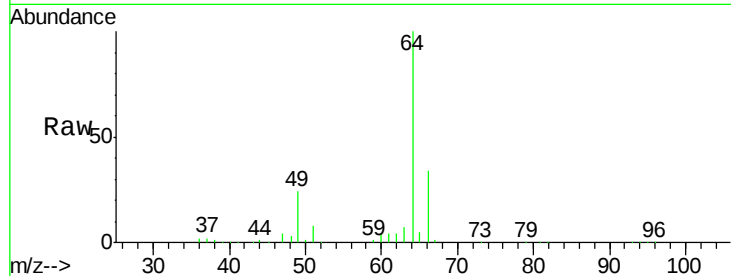
66 33.6 24.5 36.7

Manual Integrations

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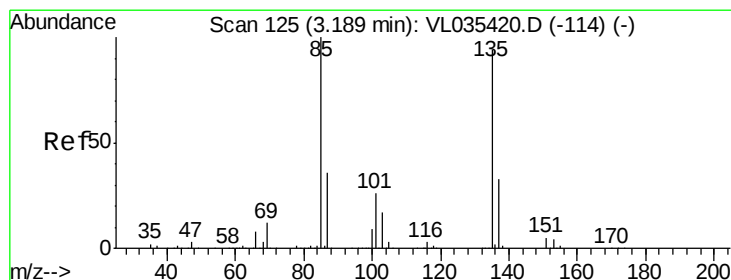
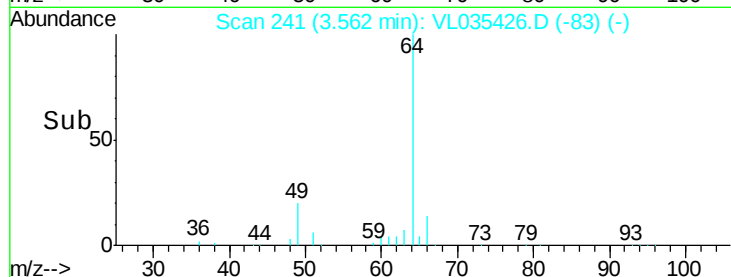
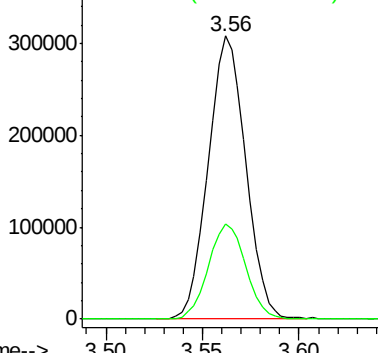
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 18.409 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.01 min

Lab File: VL035426.D

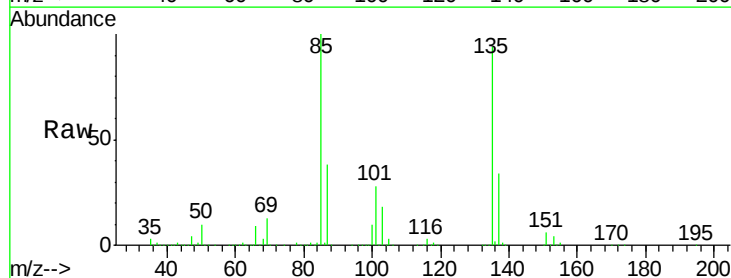
Acq: 17 Aug 2020 18:05

Tgt Ion: 85 Resp: 2943429

Ion Ratio Lower Upper

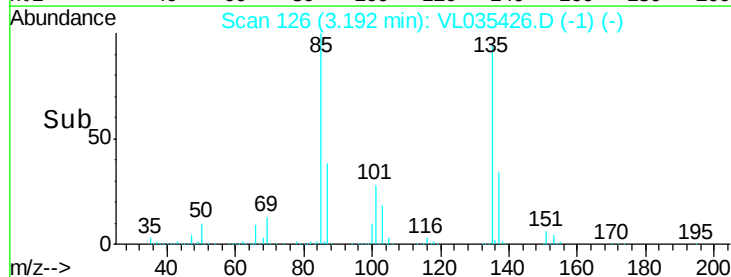
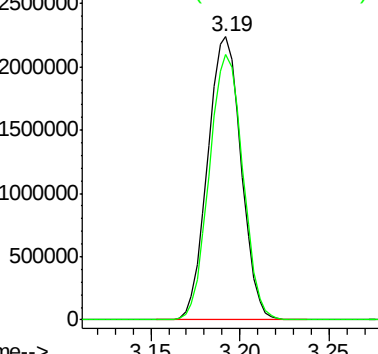
85 100

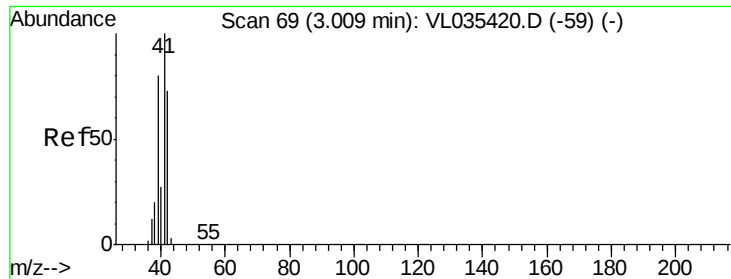
135 94.3 48.6 72.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.109 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 713460

Ion Ratio Lower Upper

41 100

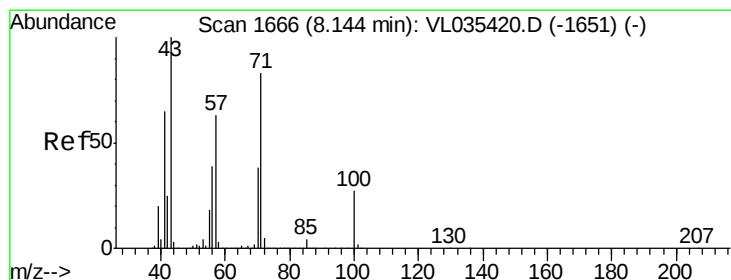
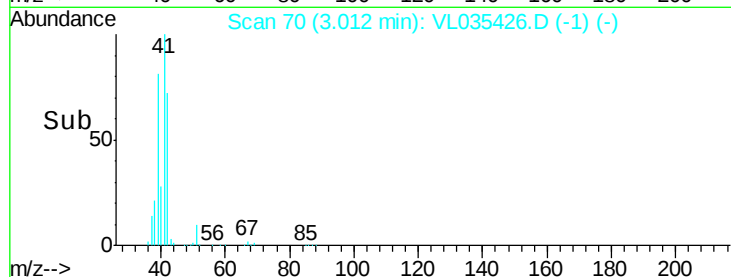
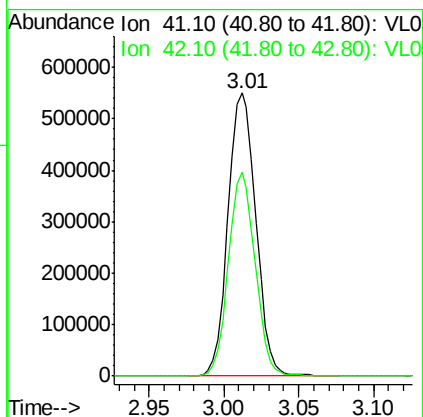
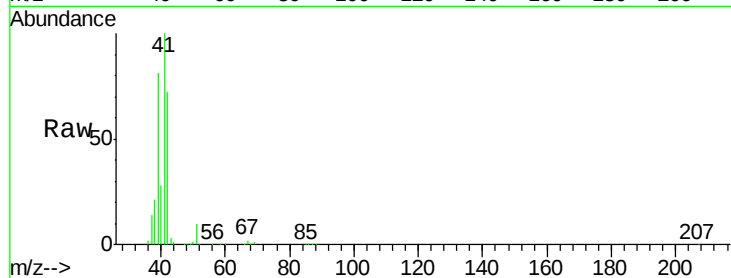
42 69.6 55.5 83.3

Manual Integrations

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#10

Heptane

Concen: 11.597 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.01 min

Lab File: VL035426.D

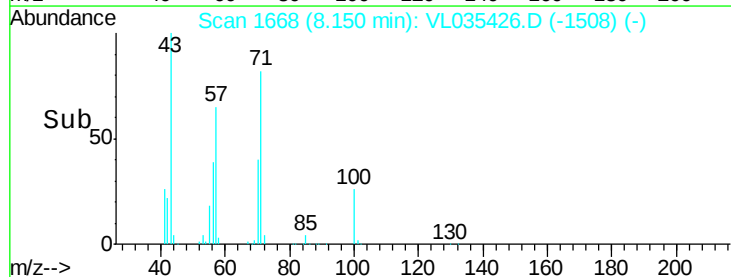
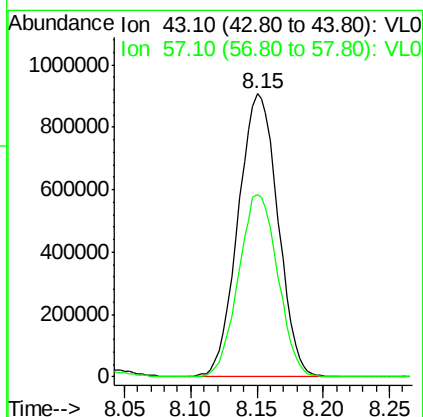
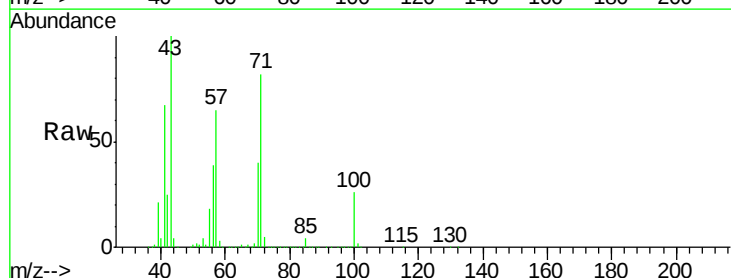
Acq: 17 Aug 2020 18:05

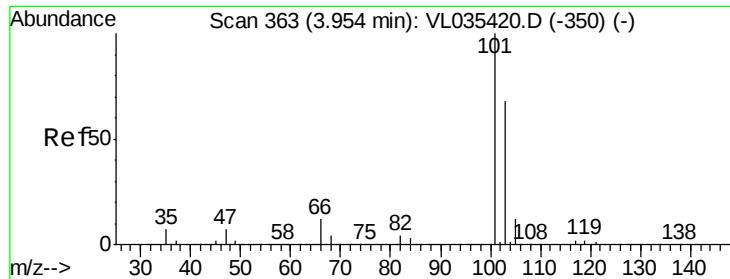
Tgt Ion: 43 Resp: 1882772

Ion Ratio Lower Upper

43 100

57 64.1 39.8 59.6#





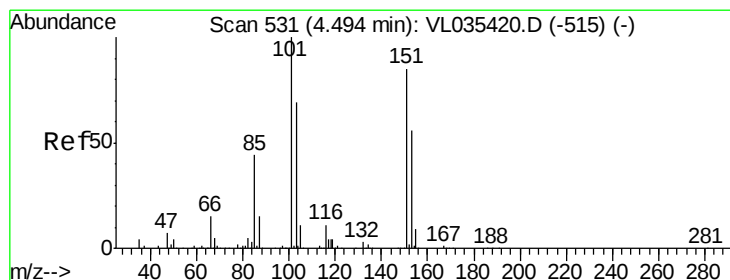
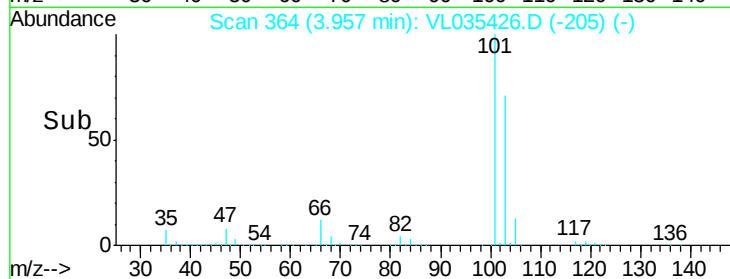
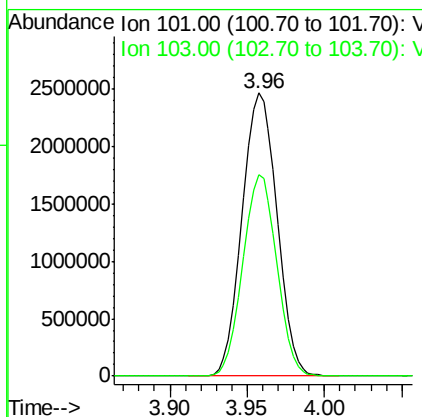
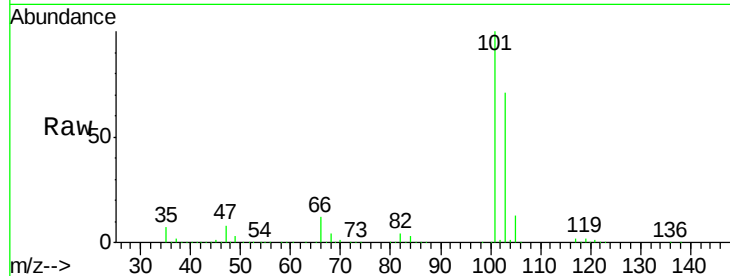
#11
 Trichlorofluoromethane
 Concen: 23.063 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3882494
 Ion Ratio Lower Upper
 101 100
 103 71.1 52.6 78.8

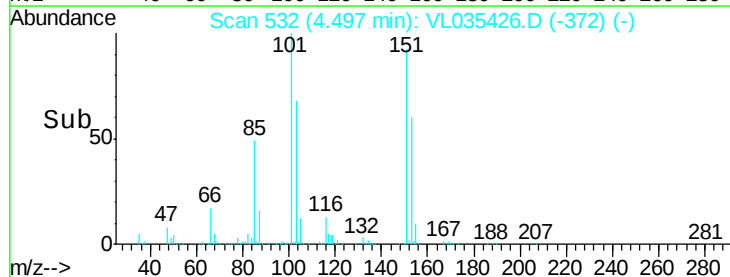
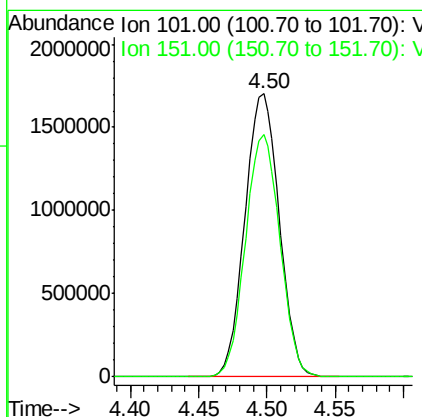
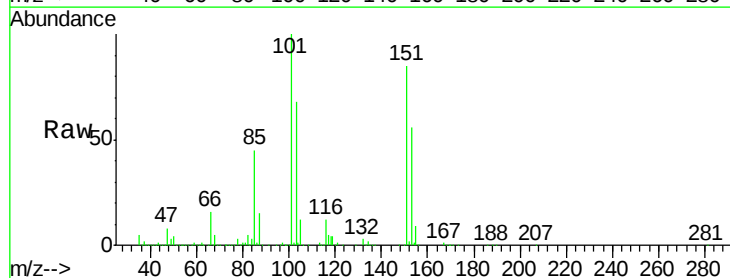
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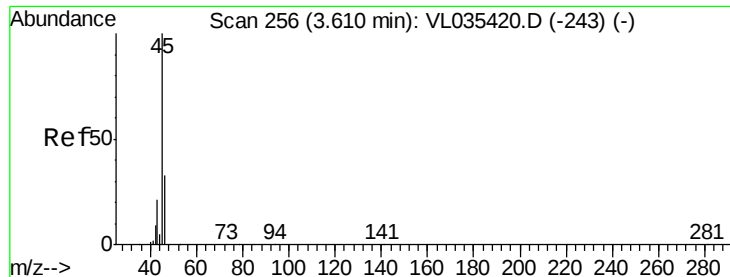
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 27.232 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion:101 Resp: 2985184
 Ion Ratio Lower Upper
 101 100
 151 86.1 53.6 80.4#





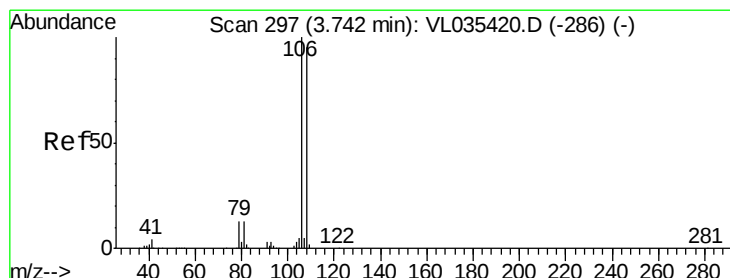
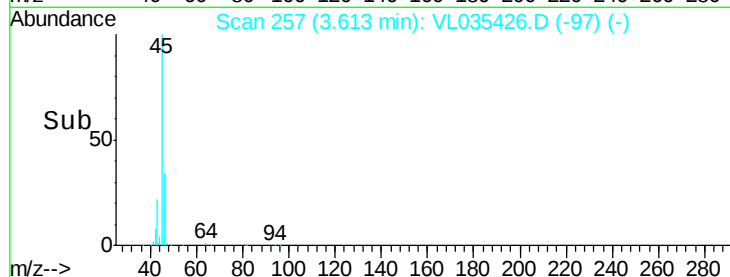
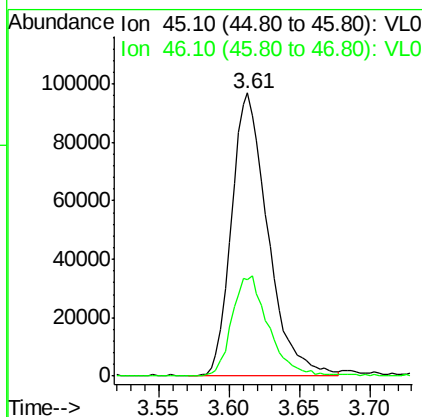
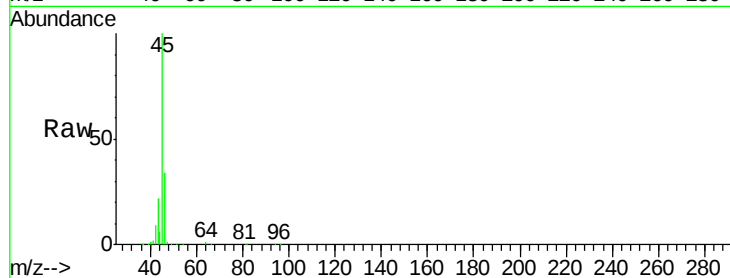
#13
Ethanol
Concen: 8.550 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.2	56.6

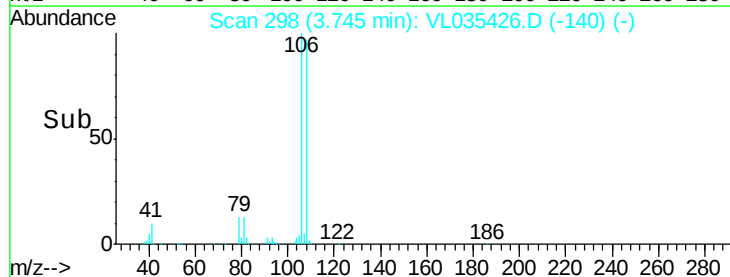
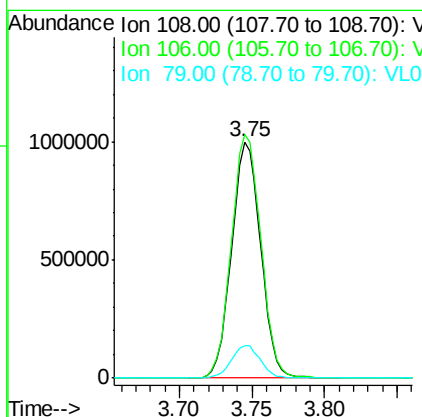
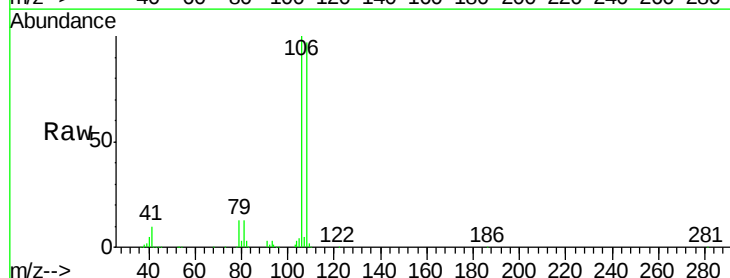
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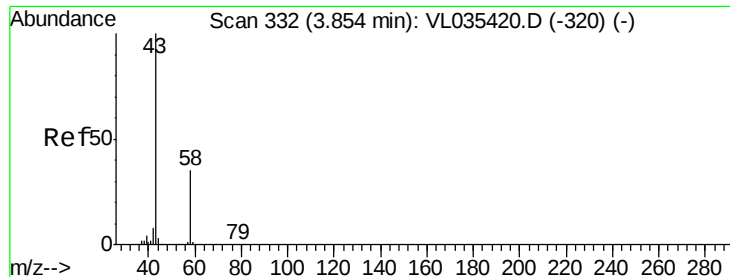
MMDadoda
8/20/2020 11:05:48 AM



#14
Bromoethene
Concen: 28.820 ppbv
RT: 3.75 min Scan# 298
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.1	86.7	130.1
79	13.8	16.8	25.2





#15

Acetone

Concen: 10.491 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1458211

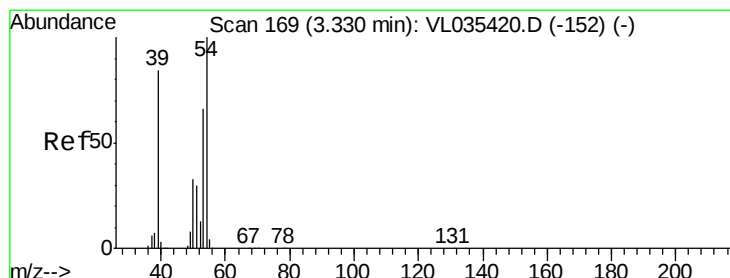
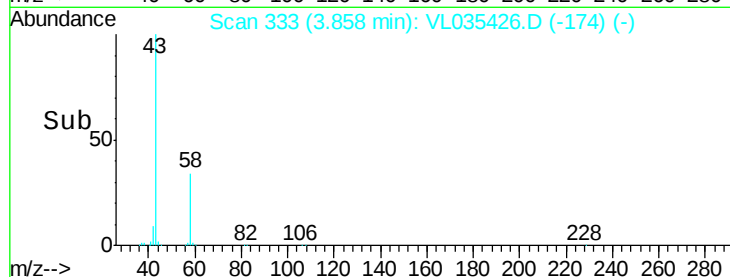
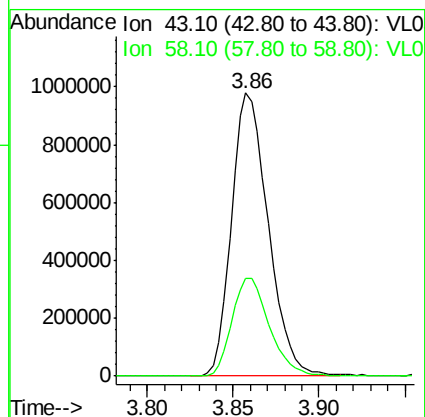
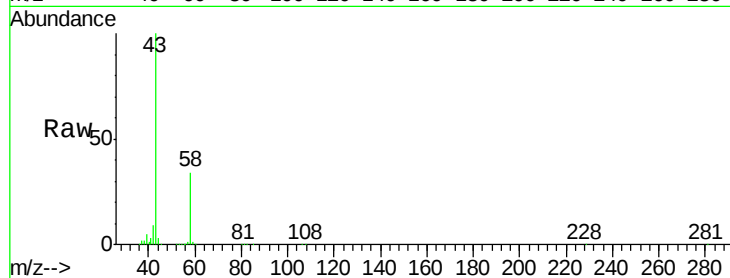
Ion Ratio Lower Upper

43 100

58 35.4 21.0 31.6#

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#16

1,3-Butadiene

Concen: 10.798 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL035426.D

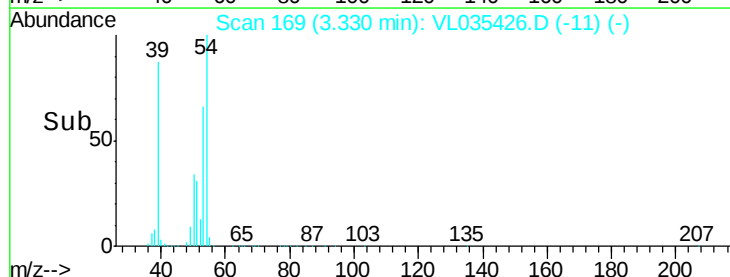
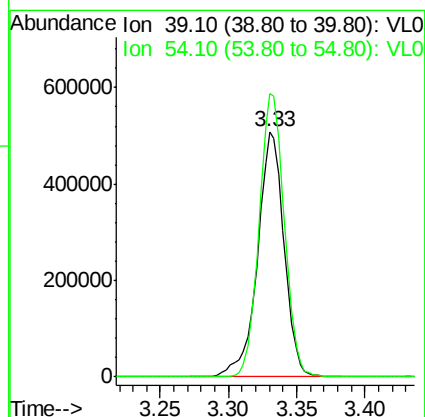
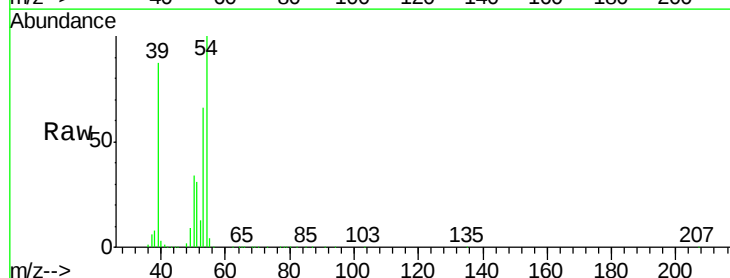
Acq: 17 Aug 2020 18:05

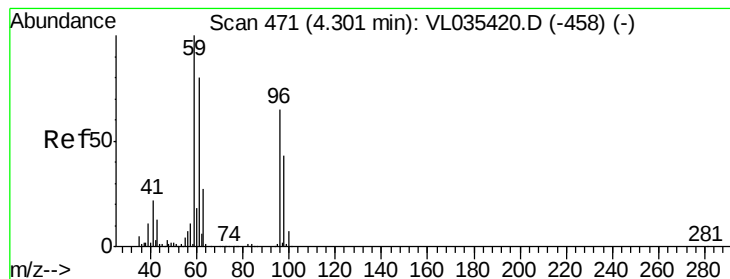
Tgt Ion: 39 Resp: 687527

Ion Ratio Lower Upper

39 100

54 110.1 64.4 96.6#





#17

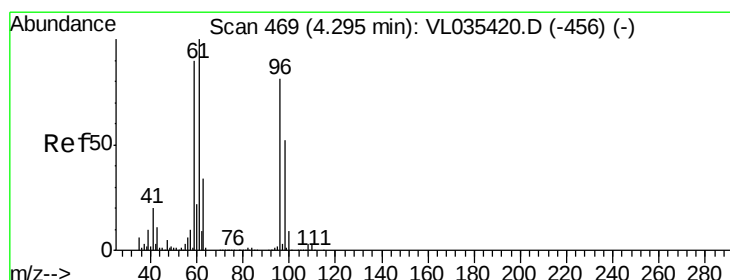
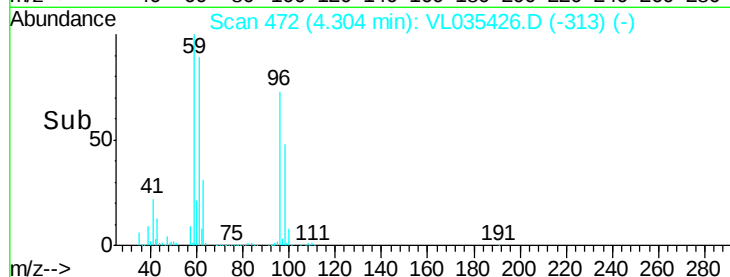
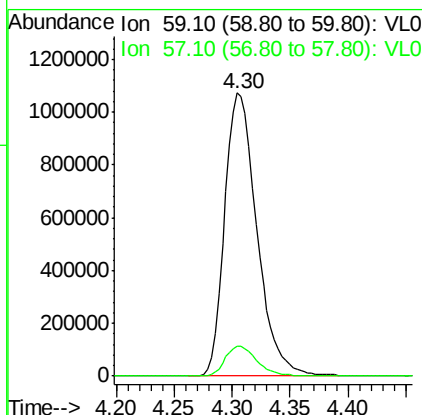
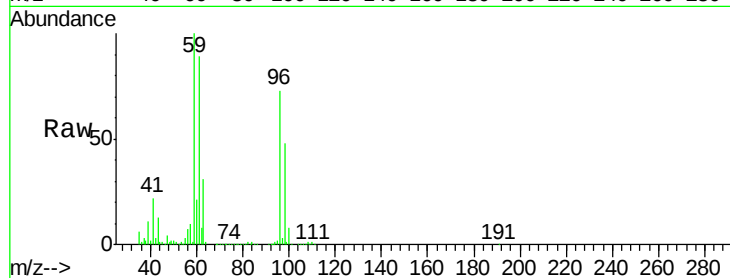
tert-Butyl alcohol
 Concen: 15.709 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 59 Resp: 2072392
 Ion Ratio Lower Upper
 59 100
 57 10.4 8.9 13.3

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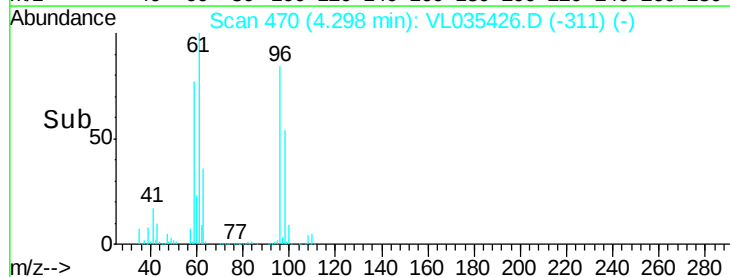
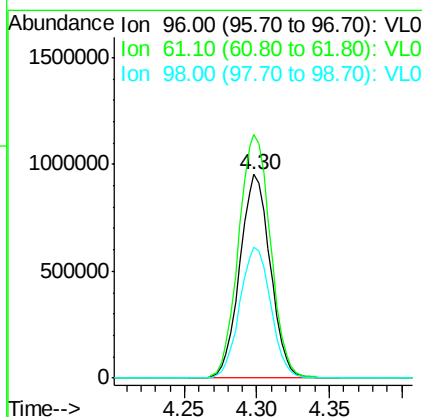
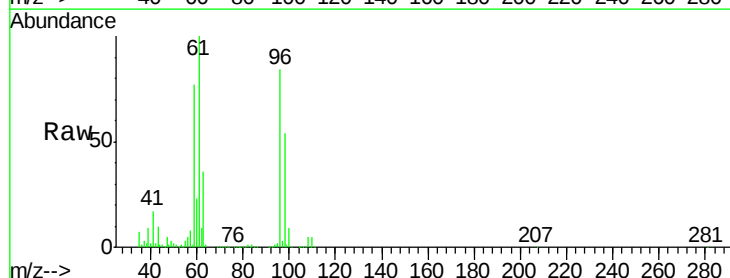
MMDadoda
 8/20/2020 11:05:48 AM

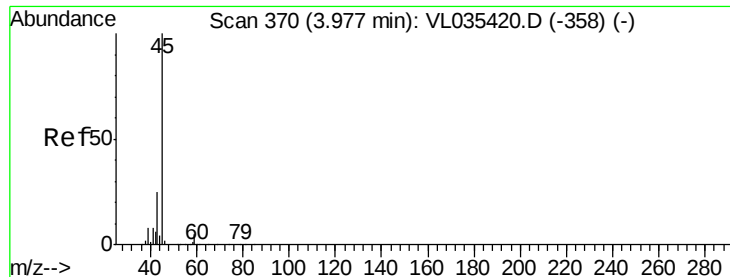


#18

1,1-Dichloroethene
 Concen: 28.363 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion: 96 Resp: 1397103
 Ion Ratio Lower Upper
 96 100
 61 119.7 161.8 242.6#
 98 64.2 49.3 73.9





#19

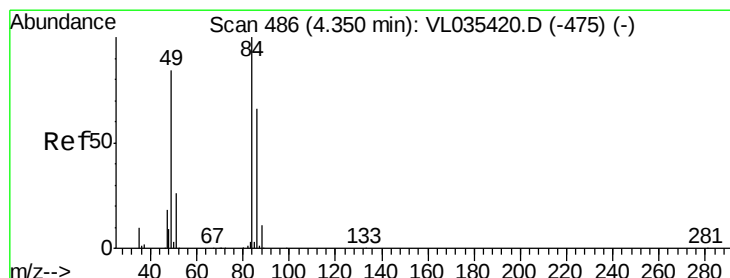
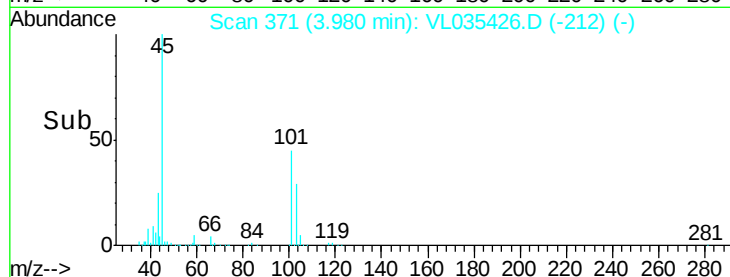
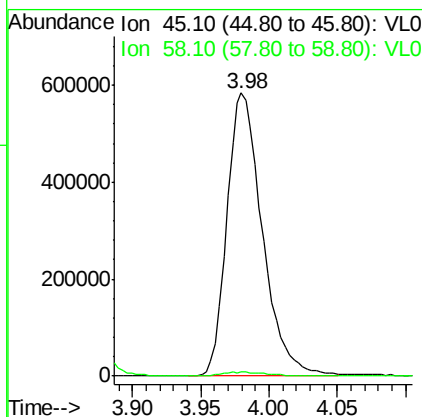
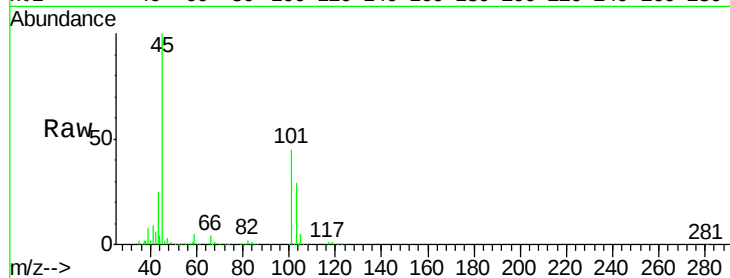
Isopropyl Alcohol
 Concen: 10.717 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1050514
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.0 1.6#

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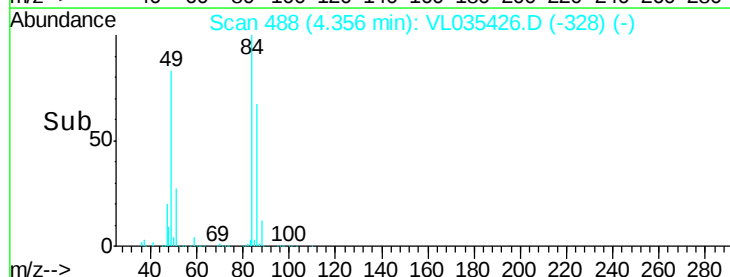
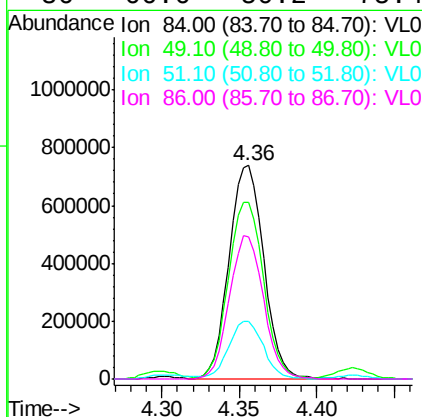
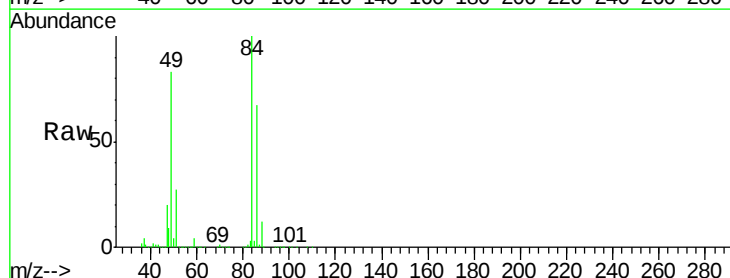
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 8/20/2020 11:05:48 AM

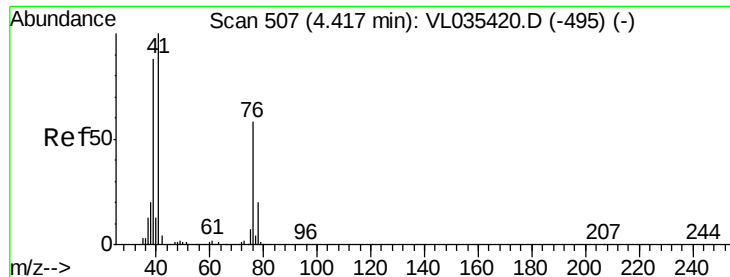


#20

Methylene Chloride
 Concen: 22.183 ppbv
 RT: 4.36 min Scan# 488
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion: 84 Resp: 1143786
 Ion Ratio Lower Upper
 84 100
 49 82.0 118.6 177.8#
 51 26.0 36.4 54.6#
 86 66.6 50.2 75.4





#21

Allvl Chloride

Concen: 11.218 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

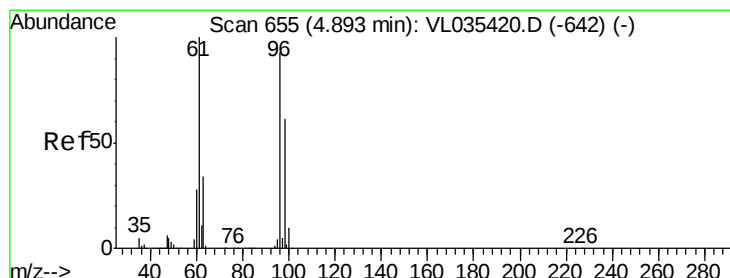
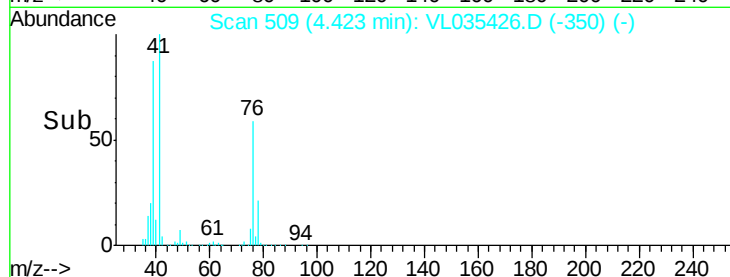
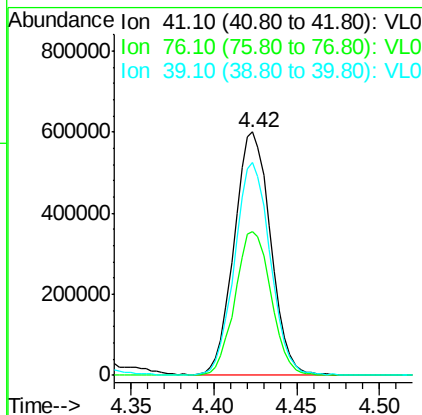
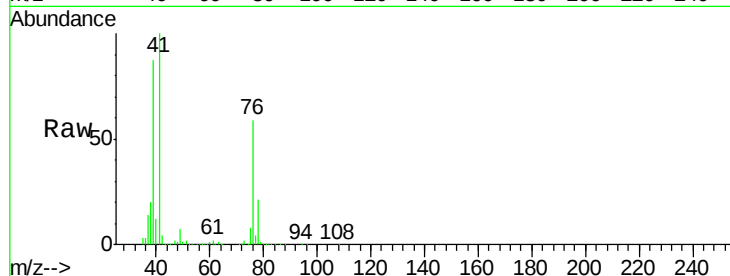
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	911144
Ion Ratio	Lower	Upper	
41	100		
76	59.0	22.8	34.2#
39	86.4	66.2	99.2

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#22

trans-1,2-Dichloroethene

Concen: 30.517 ppbv

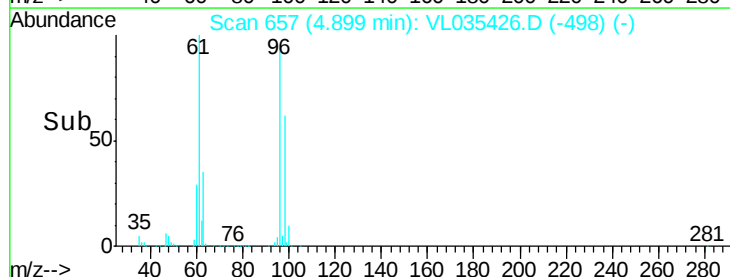
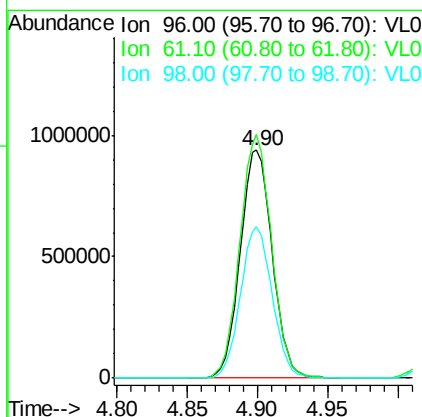
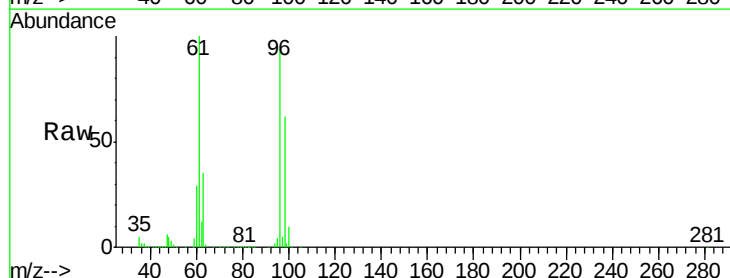
RT: 4.90 min Scan# 657

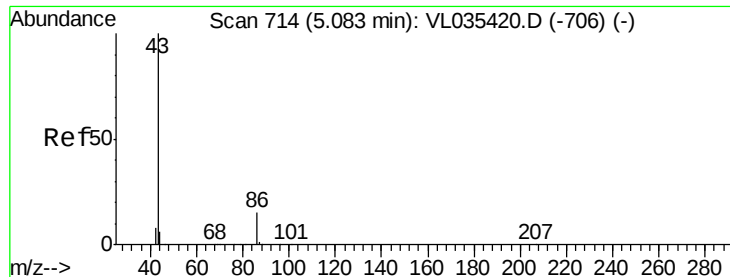
Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion:	96	Resp:	1497380
Ion Ratio	Lower	Upper	
96	100		
61	106.9	142.2	213.2#
98	66.6	51.8	77.8





#23

Vinyl Acetate

Concen: 12.183 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2482099

Ion Ratio Lower Upper

43 100

86 14.3 6.5 9.7#

42 10.2 8.3 12.5

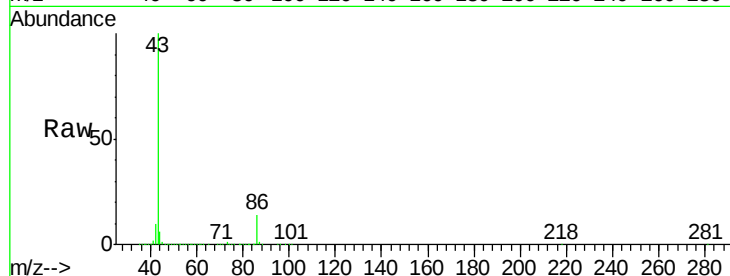
44 5.8 4.0 6.0

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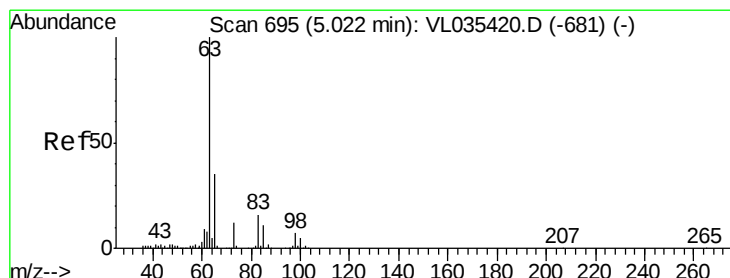
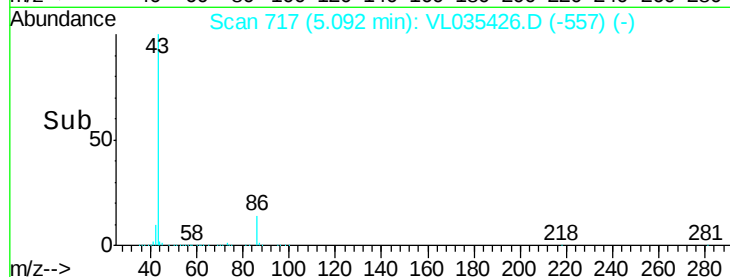
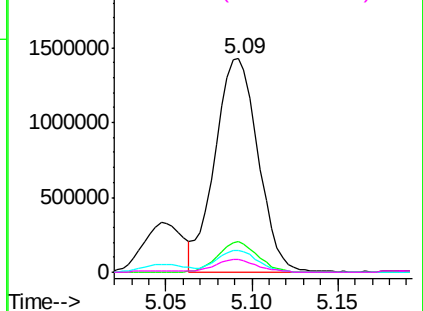


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 15.889 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

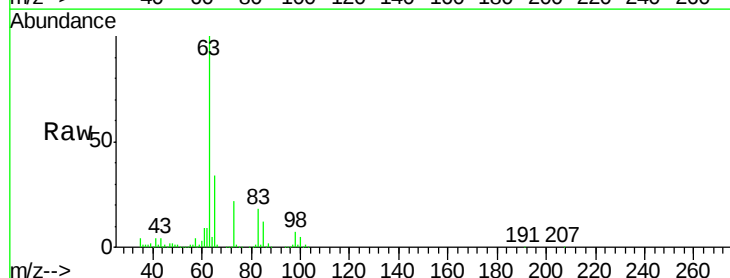
Tgt Ion: 63 Resp: 2307714

Ion Ratio Lower Upper

63 100

98 6.9 2.1 6.5#

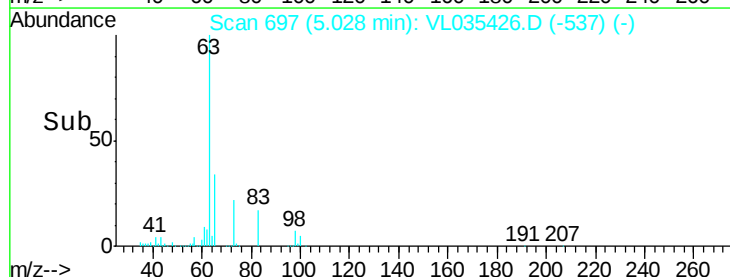
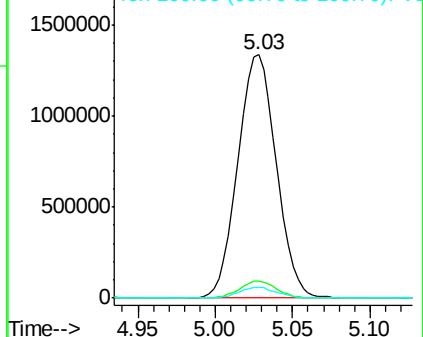
100 4.6 1.3 3.8#

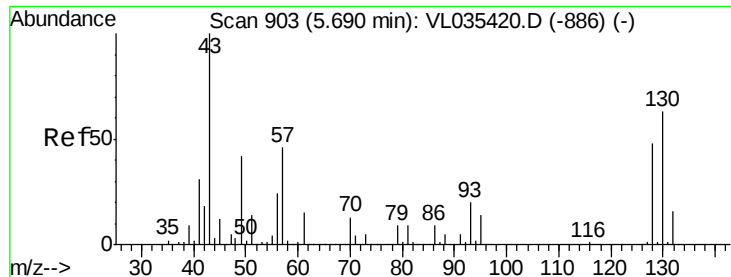


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.764 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2996234

Ion Ratio Lower Upper

43 100

45 10.7 8.3 12.5

61 13.5 7.6 11.4#

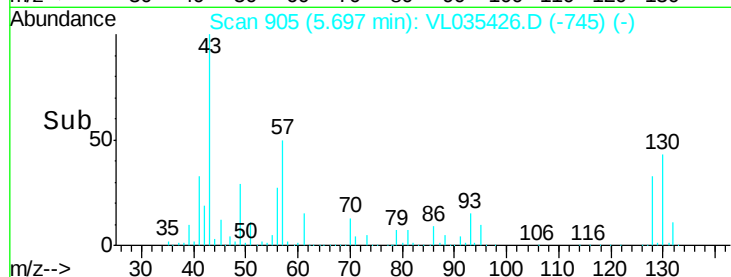
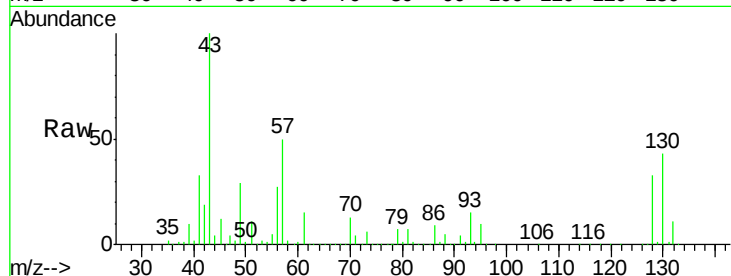
70 12.1 6.0 9.0#

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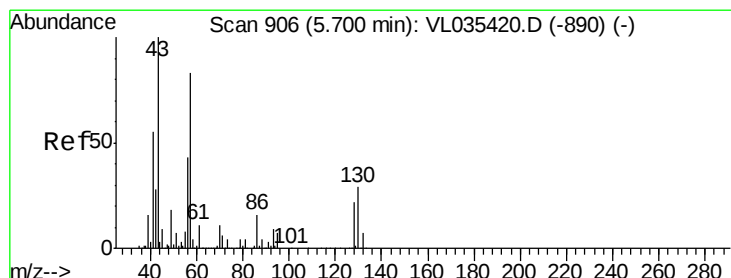
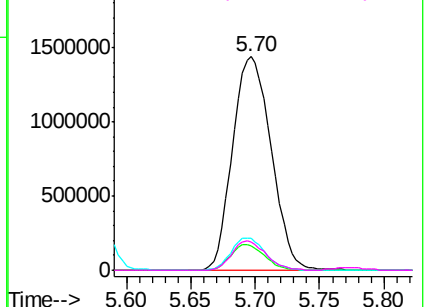


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 14.157 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion: 57 Resp: 1712115

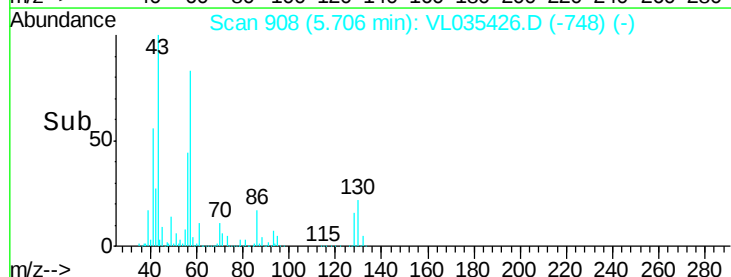
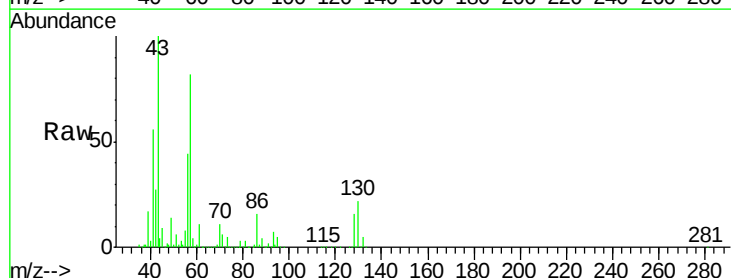
Ion Ratio Lower Upper

57 100

41 70.5 75.5 113.3#

43 175.7 181.7 272.5#

56 52.5 42.4 63.6

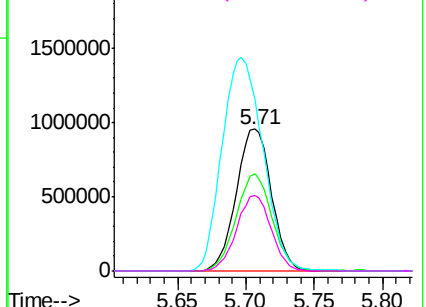


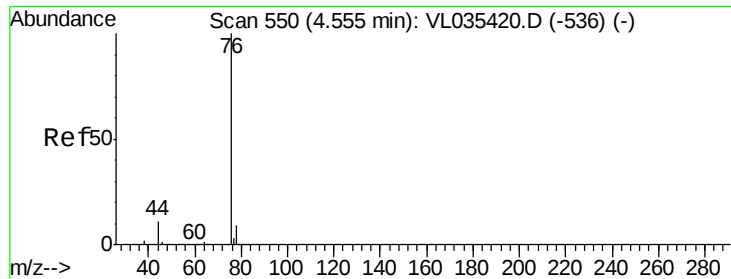
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 24.443 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2878207

Ion Ratio Lower Upper

76 100

44 12.0 16.8 25.2#

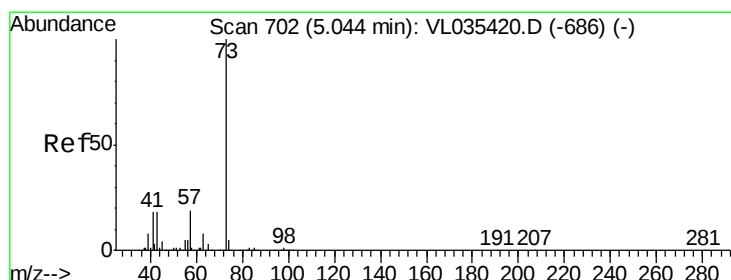
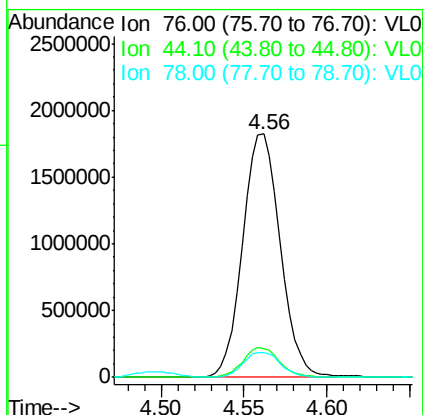
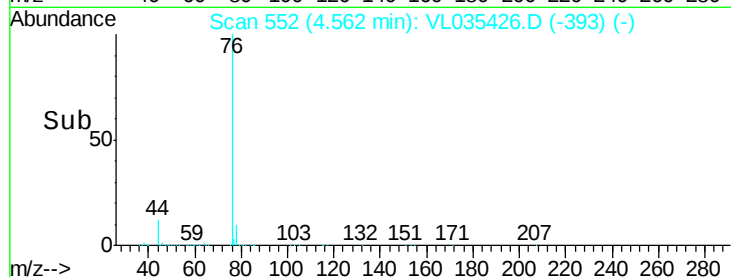
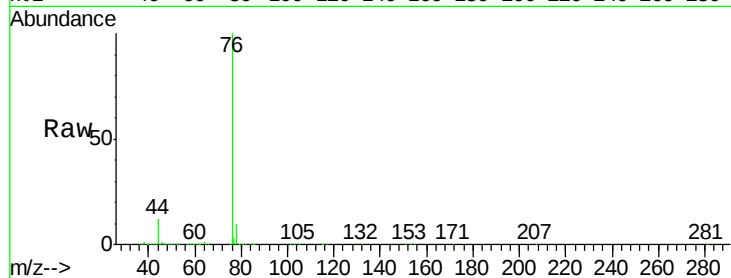
78 10.2 7.3 10.9

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#28

Methyl tert-Butyl Ether

Concen: 17.597 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.01 min

Lab File: VL035426.D

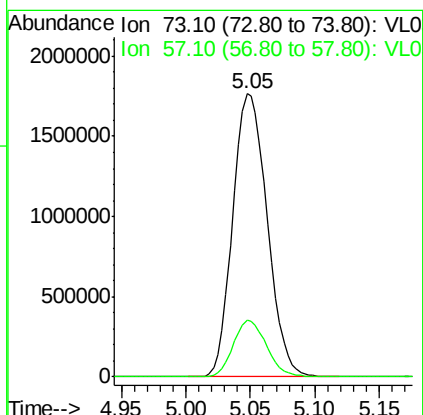
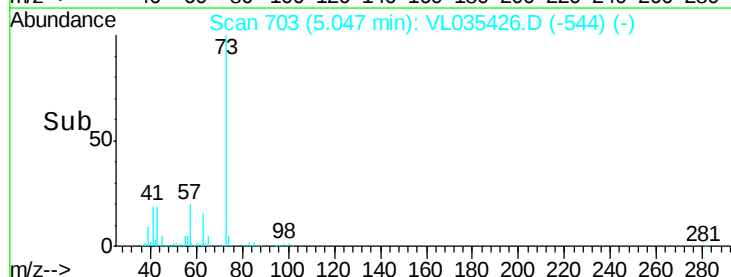
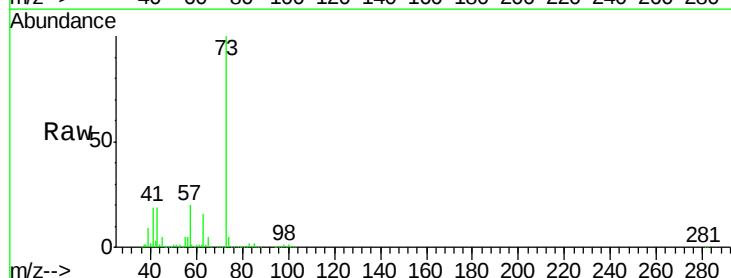
Acq: 17 Aug 2020 18:05

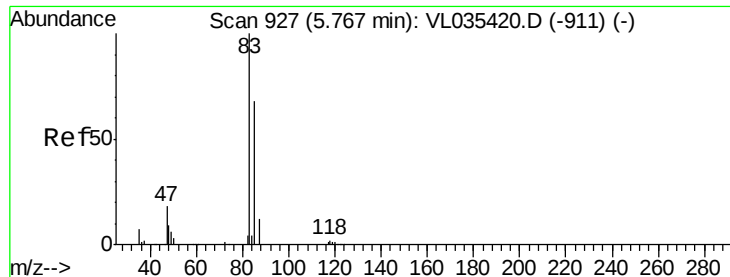
Tgt Ion: 73 Resp: 3284182

Ion Ratio Lower Upper

73 100

57 19.3 18.3 27.5





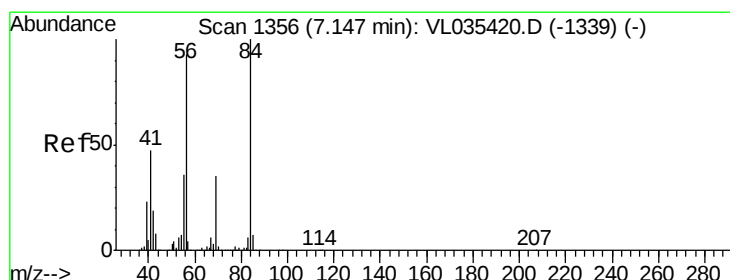
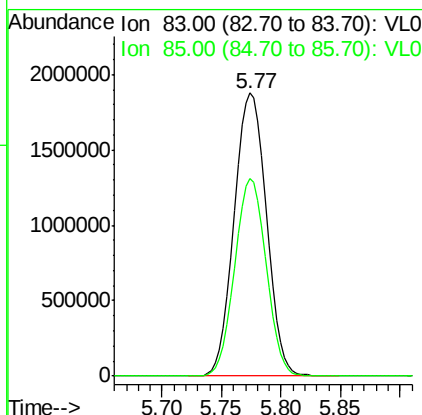
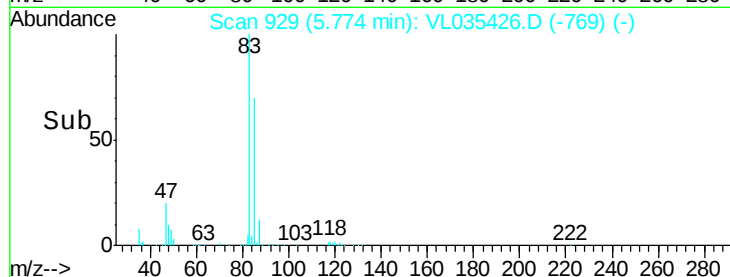
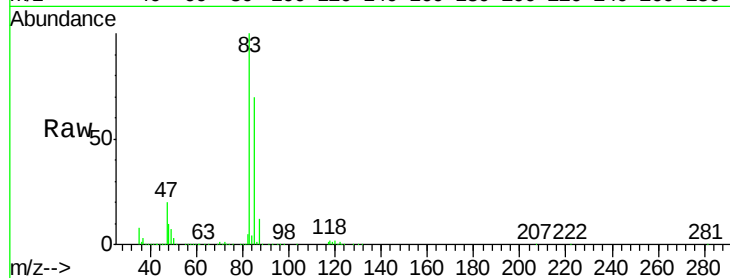
#29
Chloroform
Concen: 19.089 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3545539
Ion Ratio Lower Upper
83 100
85 69.9 52.7 79.1

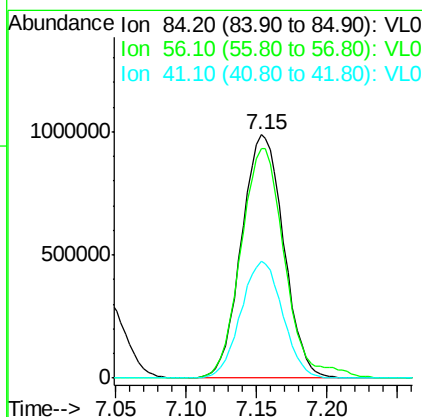
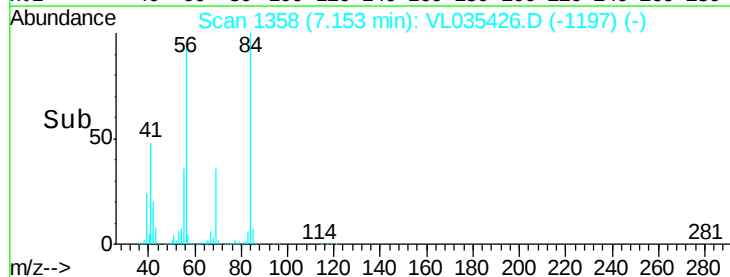
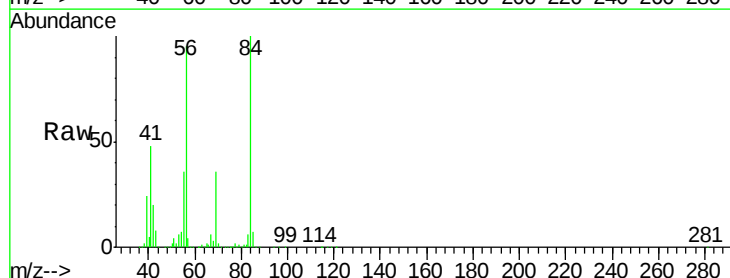
Manual Integrations
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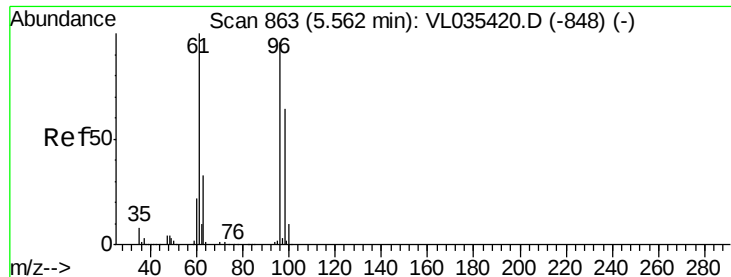
MMDadoda
8/20/2020 11:05:48 AM



#30
Cyclohexane
Concen: 21.468 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion: 84 Resp: 2061428
Ion Ratio Lower Upper
84 100
56 98.6 114.9 172.3#
41 47.7 72.3 108.5#





#31

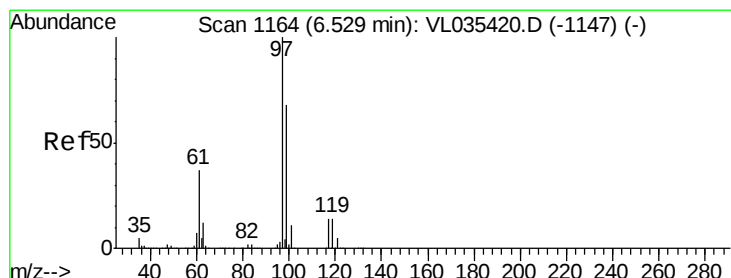
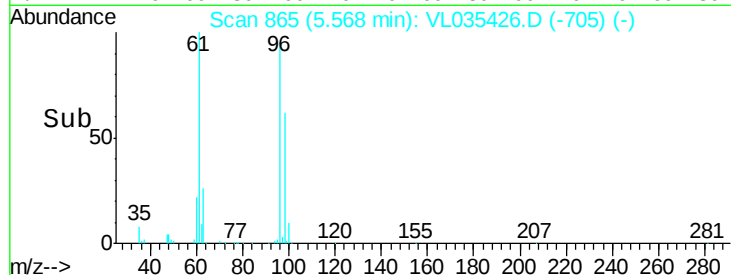
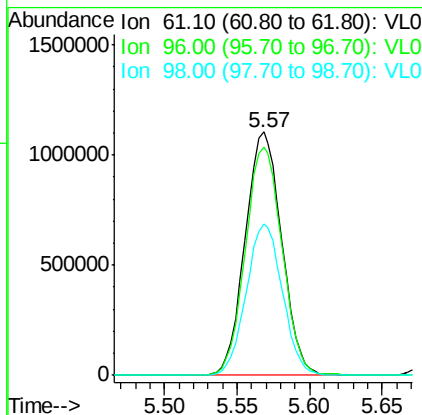
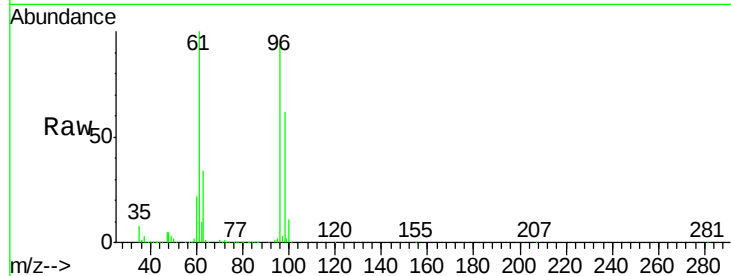
cis-1,2-Dichloroethene
 Concen: 15.753 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	94.0	51.4	77.0#
98	62.3	32.9	49.3#

Manual Integrations
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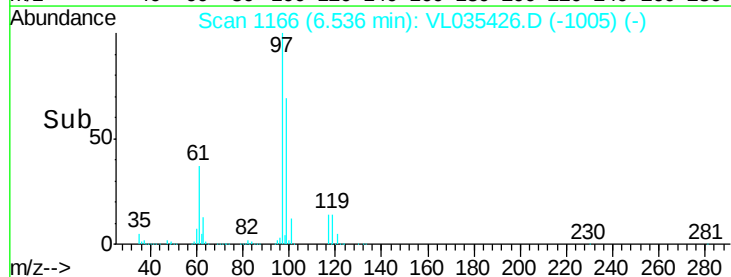
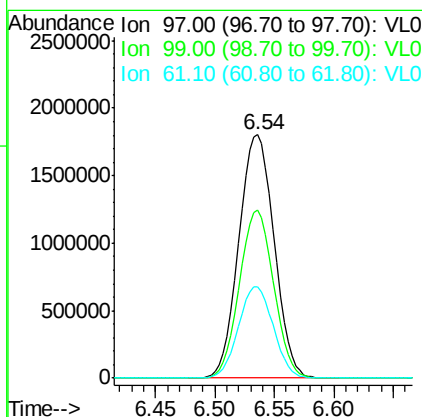
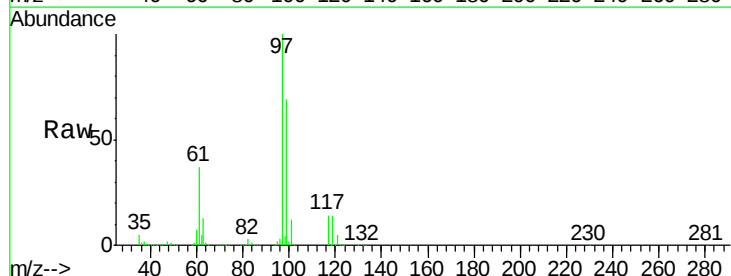
MMDadoda
 8/20/2020 11:05:48 AM

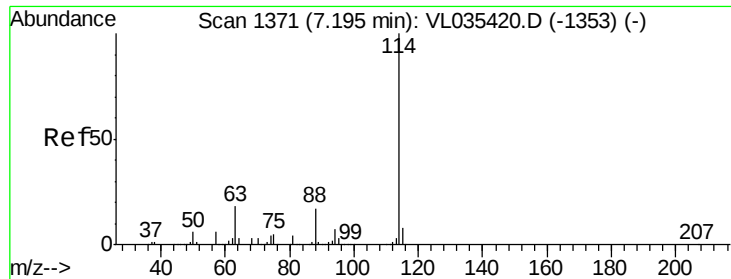


#32

1,1,1-Trichloroethane
 Concen: 20.035 ppbv
 RT: 6.54 min Scan# 1166
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.0	51.4	77.0
61	37.3	41.0	61.6#





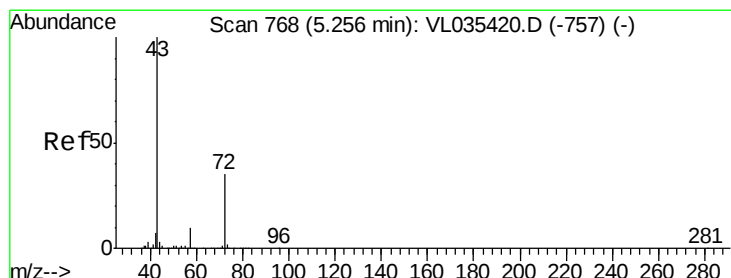
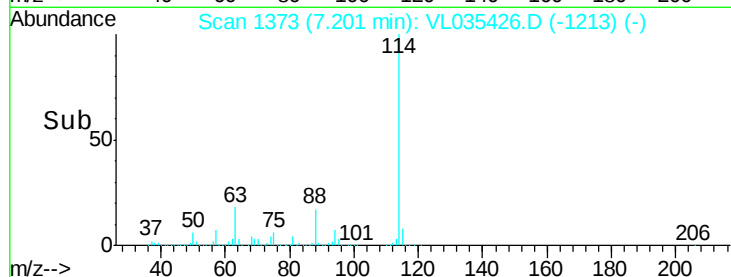
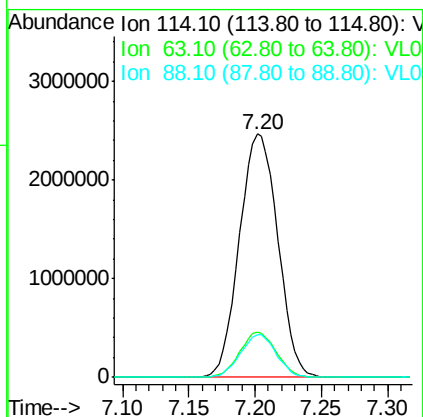
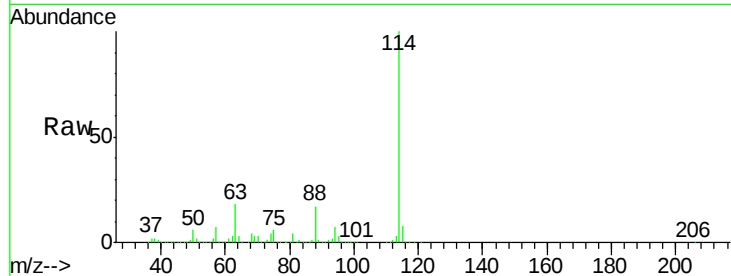
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4966334
 Ion Ratio Lower Upper
 114 100
 63 17.8 23.1 34.7#
 88 16.5 15.9 23.9

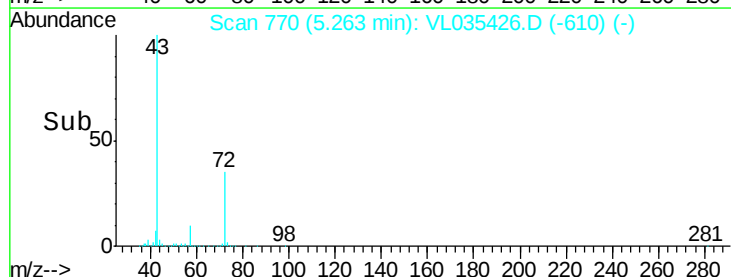
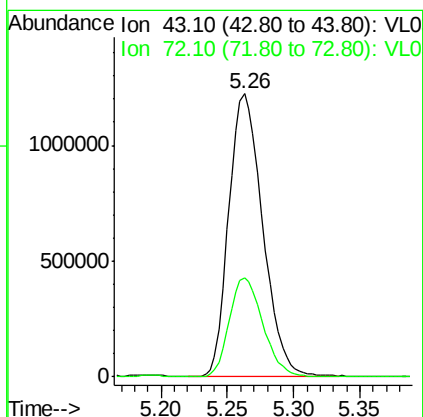
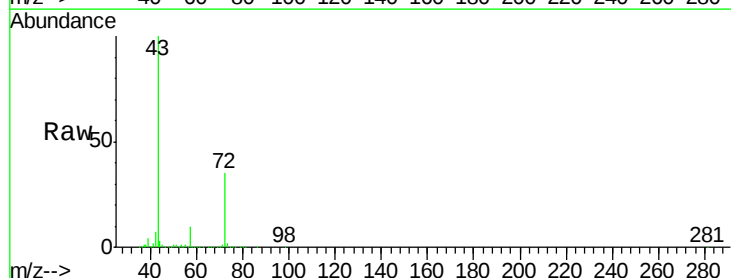
Manual Integrations
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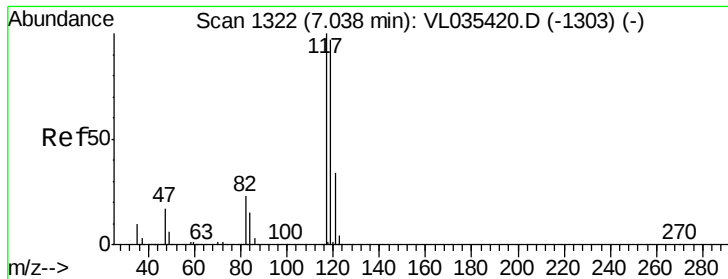
MMDadoda
 8/20/2020 11:05:48 AM



#34
 2-Butanone
 Concen: 5.689 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion: 43 Resp: 2178980
 Ion Ratio Lower Upper
 43 100
 72 34.8 17.6 26.4#





#35

Carbon Tetrachloride

Concen: 10.816 ppbv

RT: 7.04 min Scan# 1324

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3990670

Ion Ratio Lower Upper

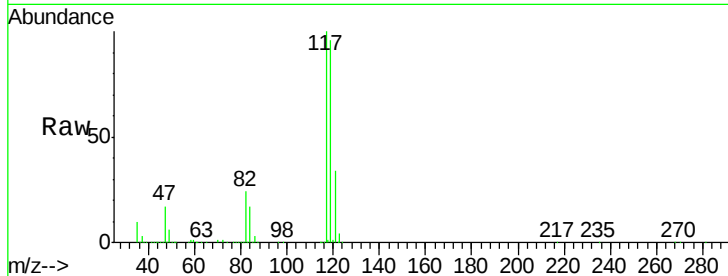
117 100

119 96.1 76.1 114.1

121 34.4 25.5 38.3

Manual Integrations
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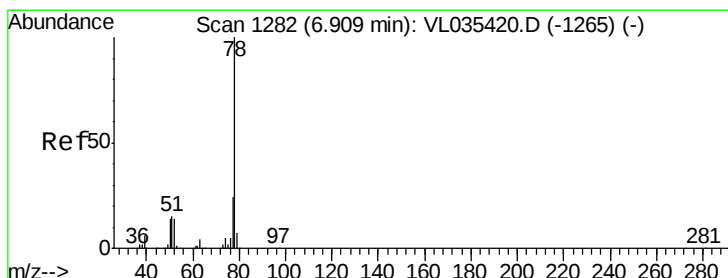
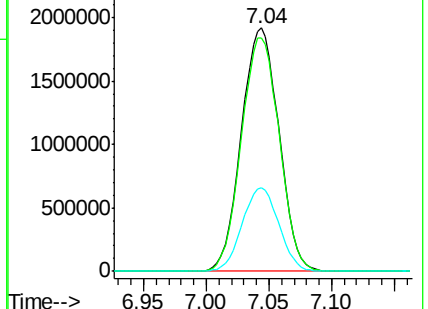
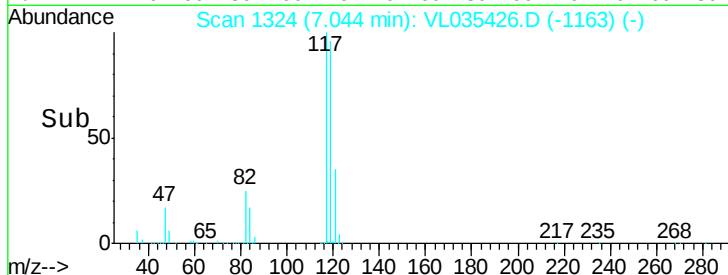
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.046 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

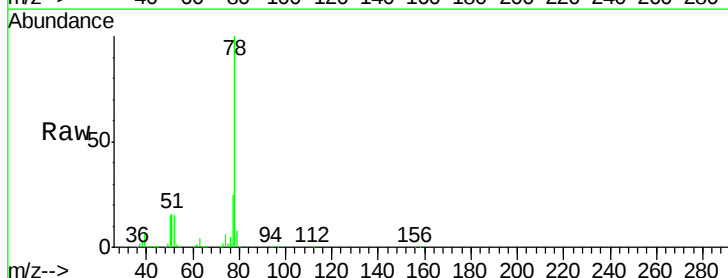
Tgt Ion: 78 Resp: 4559333

Ion Ratio Lower Upper

78 100

77 25.2 19.6 29.4

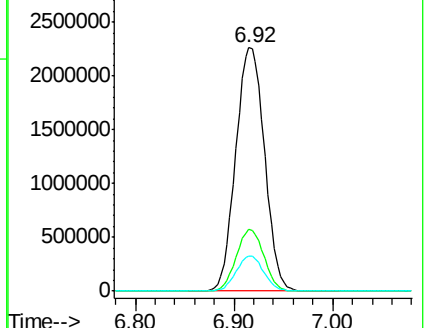
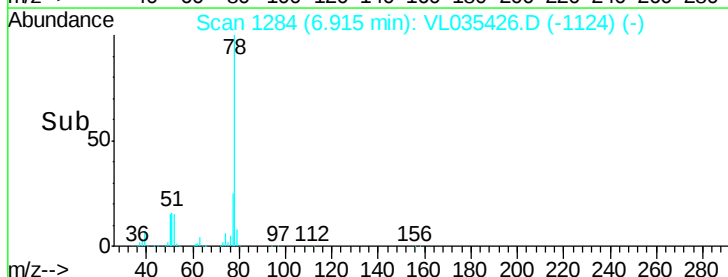
50 14.6 16.3 24.5#

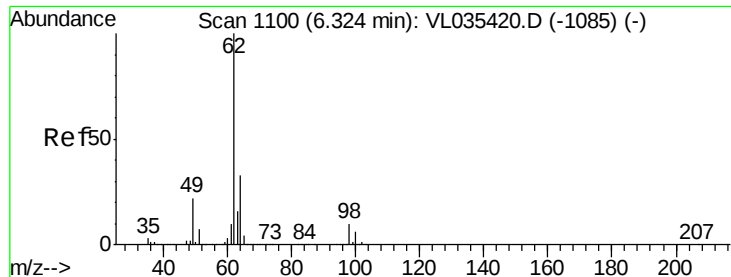


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





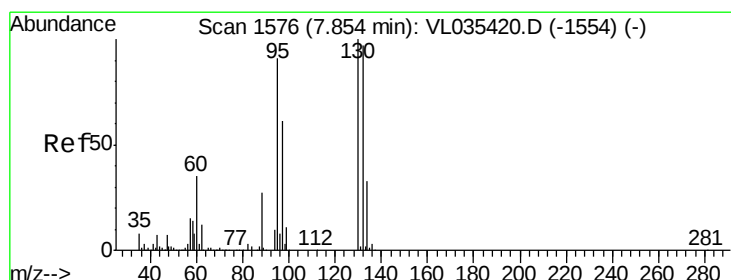
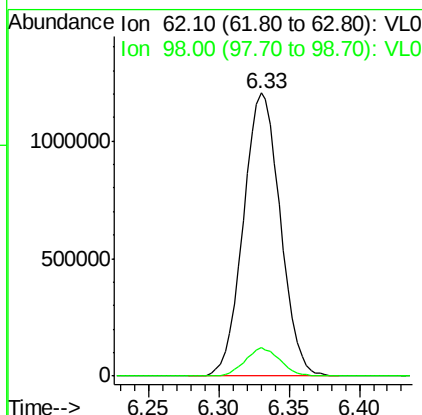
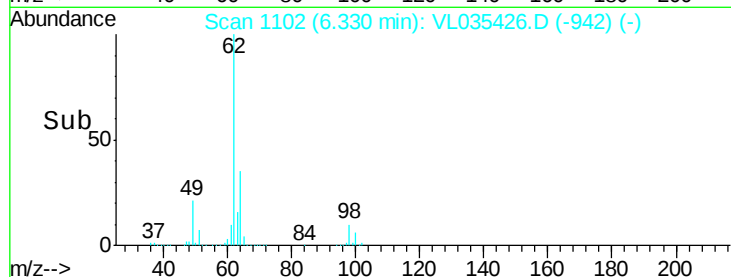
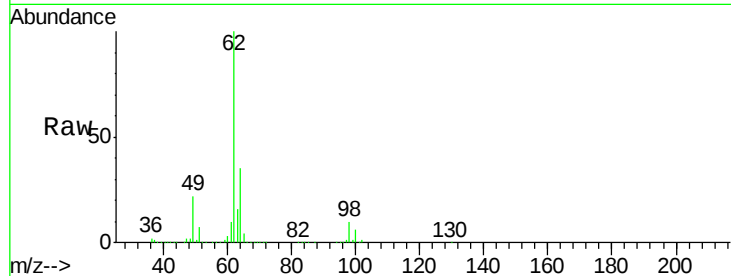
#37
 1,2-Dichloroethane
 Concen: 7.111 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2210204
 Ion Ratio Lower Upper
 62 100
 98 9.6 4.6 7.0#

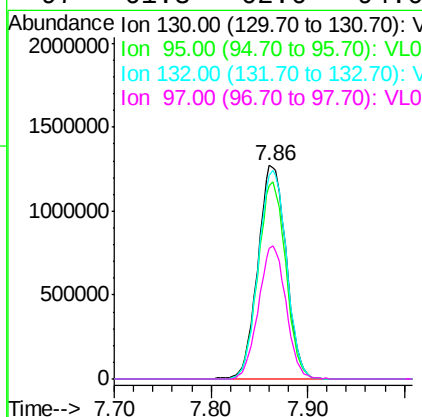
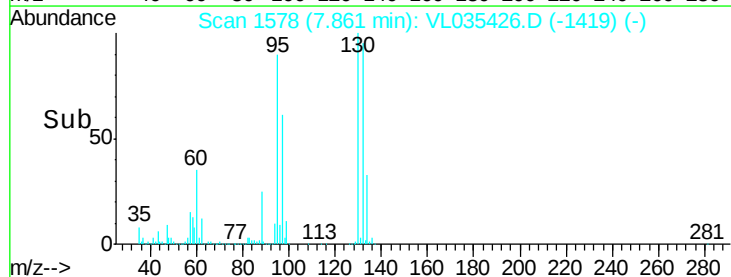
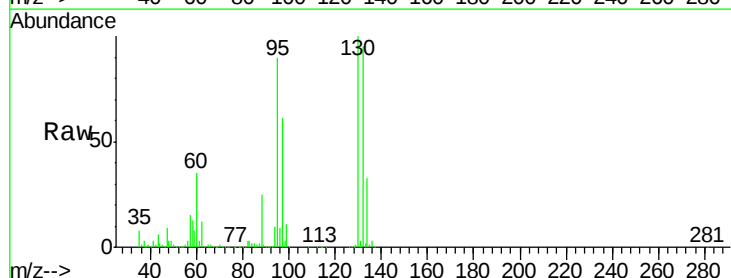
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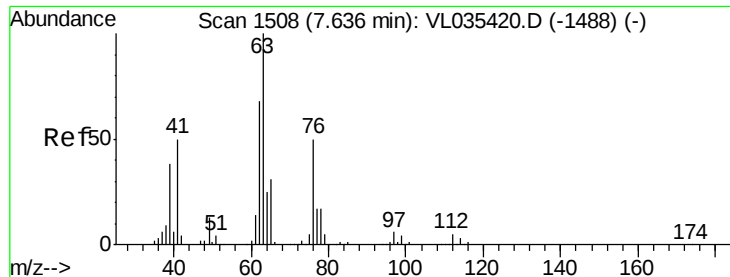
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#38
 Trichloroethene
 Concen: 13.273 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion:130 Resp: 2586397
 Ion Ratio Lower Upper
 130 100
 95 90.4 95.8 143.8#
 132 95.2 74.3 111.5
 97 61.3 62.6 94.0#





#39

1,2-Dichloropropane

Concen: 7.728 ppbv

RT: 7.64 min Scan# 1510

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

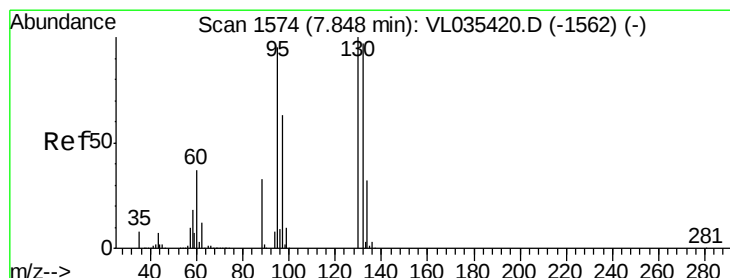
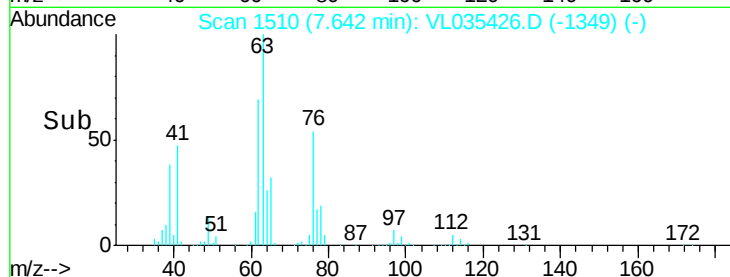
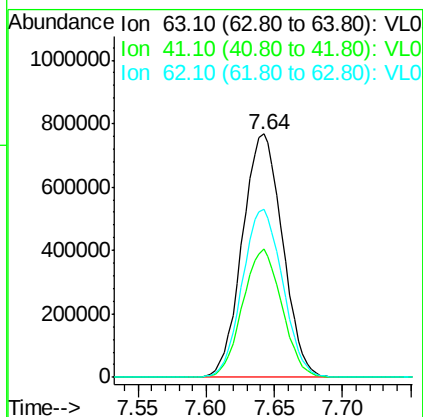
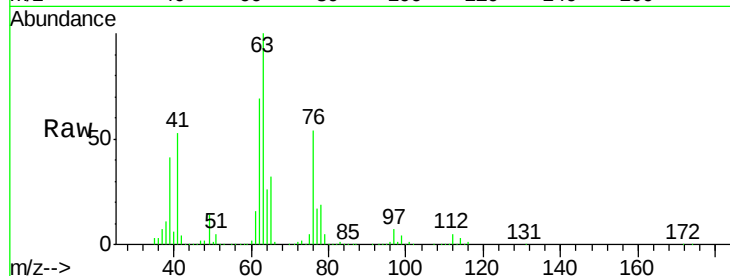
ClientSampleId :

VSTDIC015

Tot Ion:	63	Resp:	1569625
Ion	Ratio	Lower	Upper
63	100		
41	52.9	61.1	91.7#
62	69.2	55.3	82.9

Manual Integrations
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MMDadoda
8/20/2020 11:05:48 AM



#40

1,4-Dioxane

Concen: 9.782 ppbv

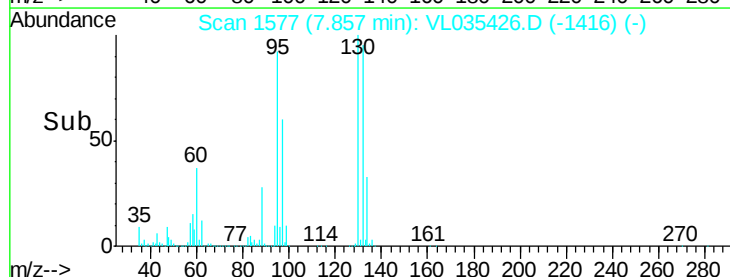
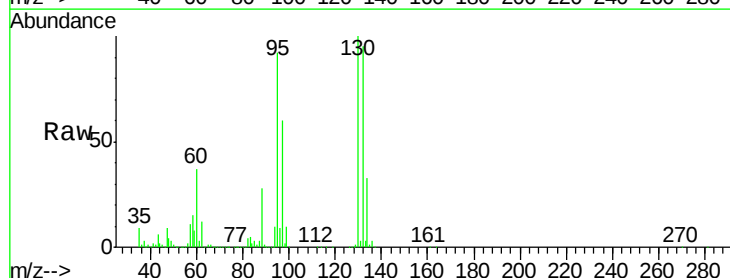
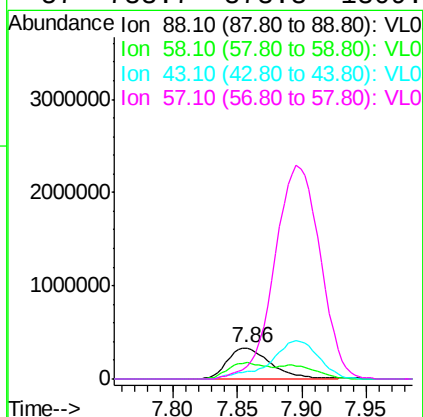
RT: 7.86 min Scan# 1577

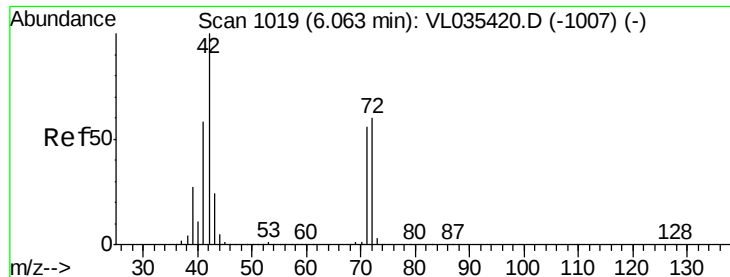
Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion:	88	Resp:	768699
Ion	Ratio	Lower	Upper
88	100		
58	89.2	106.6	160.0#
43	140.0	209.7	314.5#
57	733.7	873.3	1309.9#





#41

Tetrahydrofuran

Concen: 5.889 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1268327

Ion Ratio Lower Upper

42 100

72 60.2 29.4 44.2#

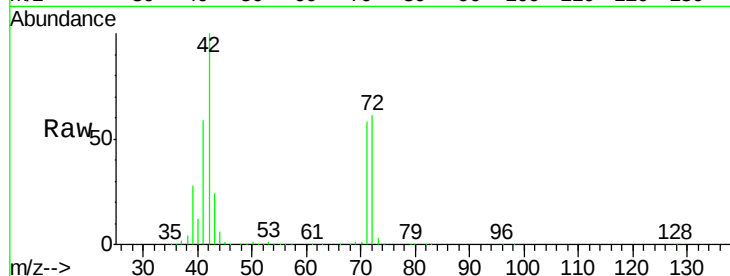
71 58.0 28.9 43.3#

Manual Integrations

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MMDadoda

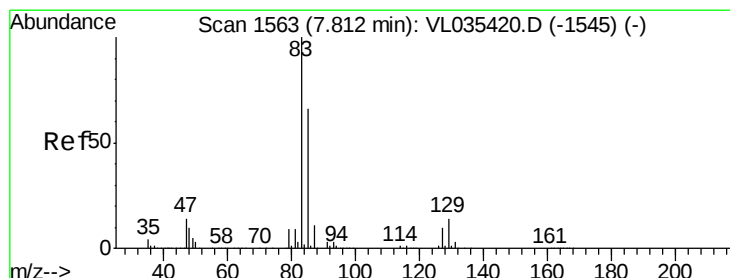
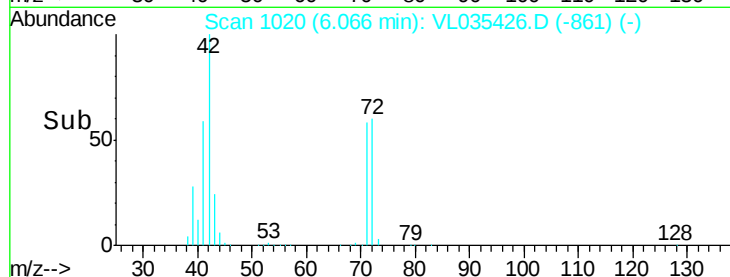
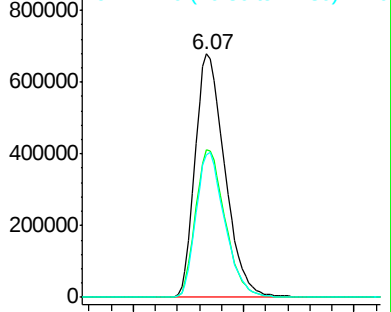
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Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.597 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

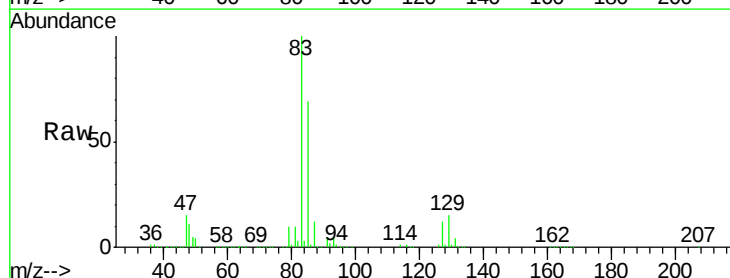
Tgt Ion: 83 Resp: 3814818

Ion Ratio Lower Upper

83 100

85 68.9 54.8 82.2

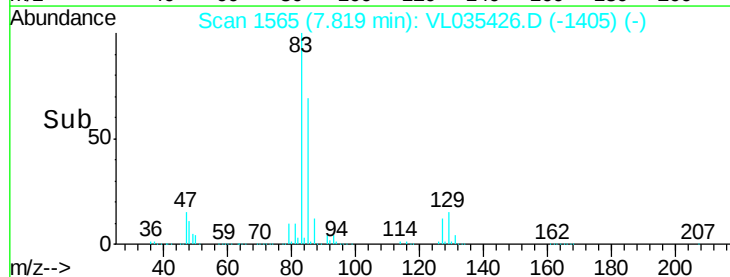
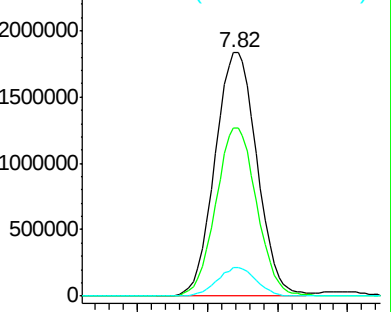
127 11.6 6.1 9.1#

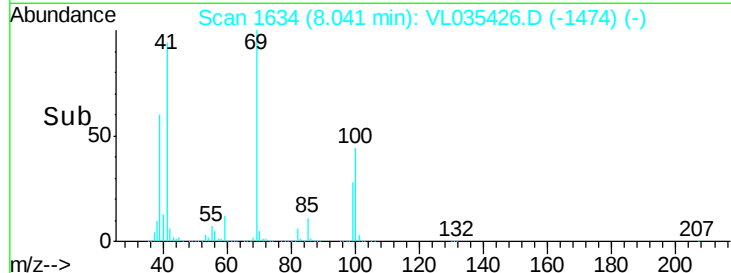
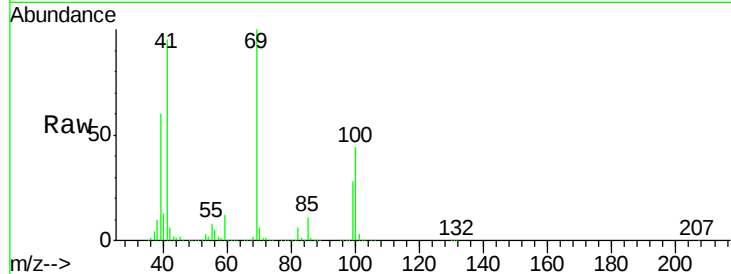
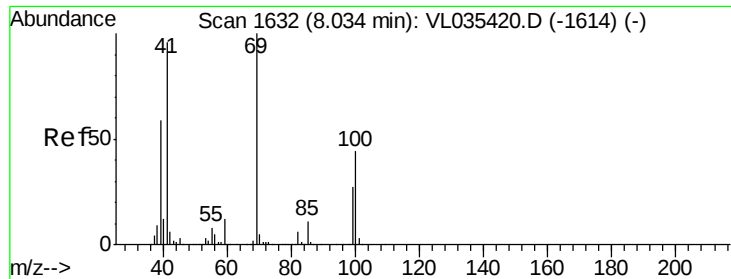


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





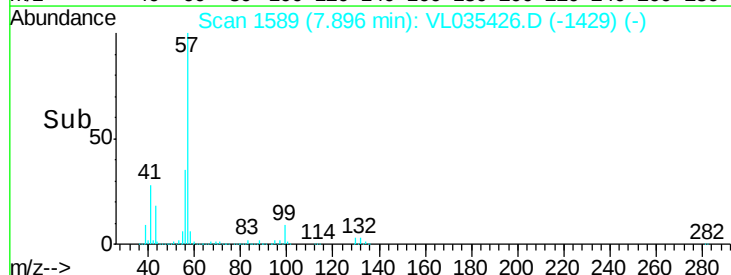
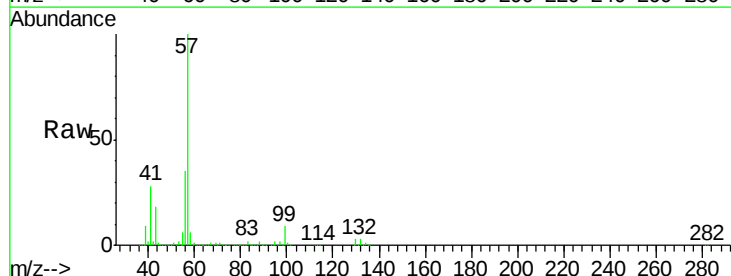
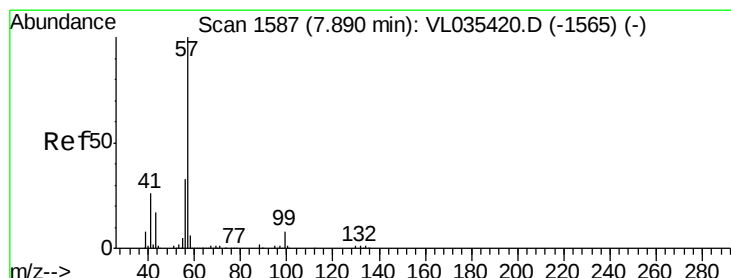
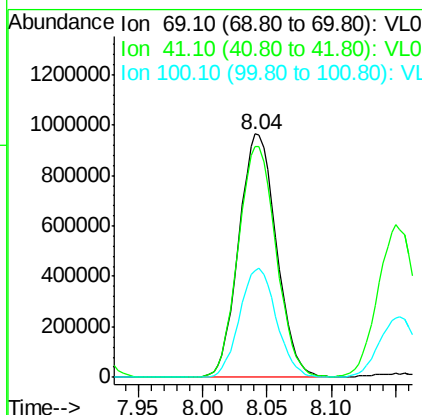
#43
Methvl Methacrylate
Concen: 8.923 ppbv
RT: 8.04 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tot Ion: 69 Resp: 1957532
Ion Ratio Lower Upper
69 100
41 95.6 123.4 185.0#
100 44.0 24.2 36.4#

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

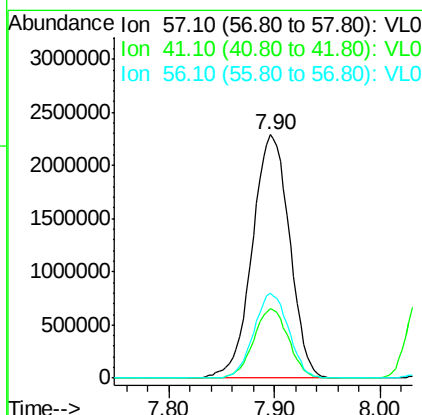
Manual Integrations
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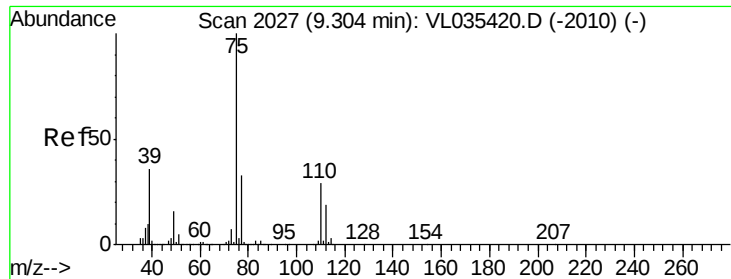
MMDadoda
8/20/2020 11:05:48 AM



#44
2,2,4-Trimethylpentane
Concen: 6.391 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion: 57 Resp: 5630248
Ion Ratio Lower Upper
57 100
41 26.7 27.2 40.8#
56 32.7 25.4 38.0





#45

t-1,3-Dichloropropene

Concen: 10.250 ppbv

RT: 9.31 min Scan# 2029

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 2362616

Ion Ratio Lower Upper

75 100

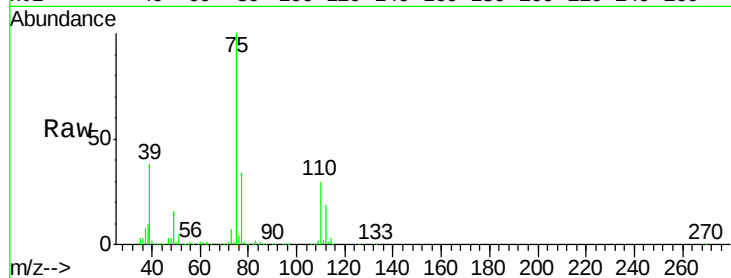
77 33.5 25.0 37.6

Manual Integrations

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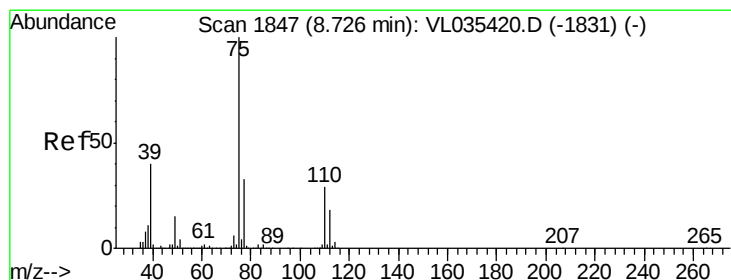
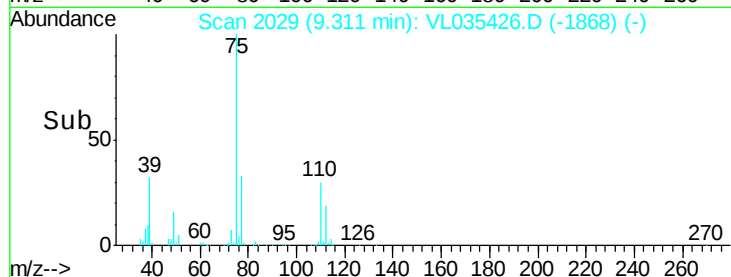
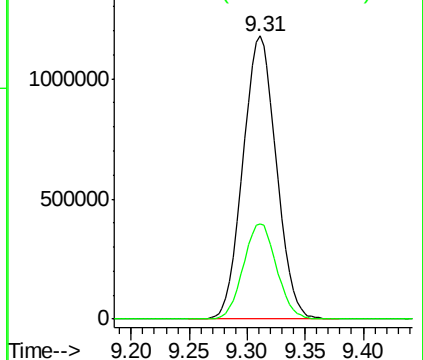
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.736 ppbv

RT: 8.74 min Scan# 1850

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

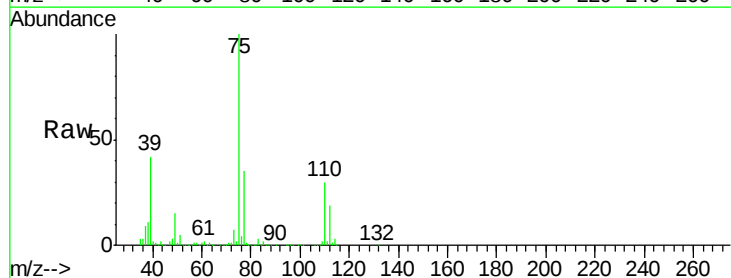
Tgt Ion: 75 Resp: 2717209

Ion Ratio Lower Upper

75 100

39 42.5 55.8 83.6#

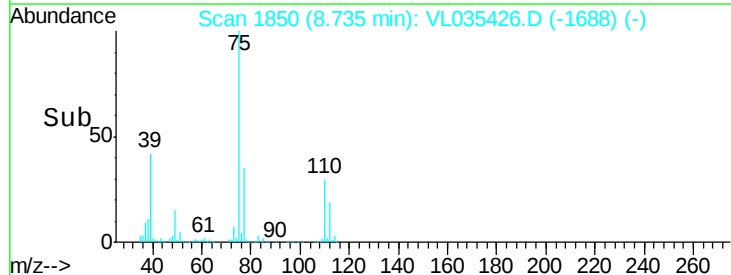
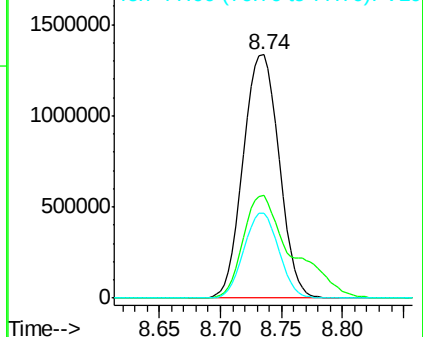
77 34.8 25.6 38.4

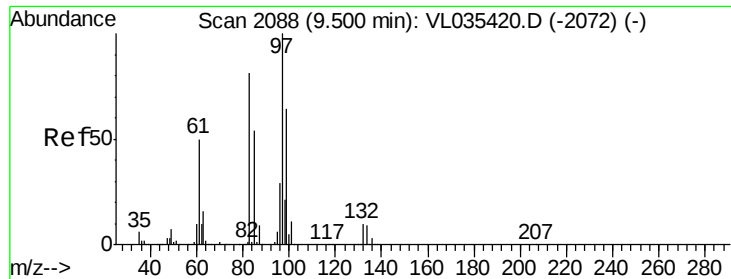


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47
 1,1,2-Trichloroethane
 Concen: 11.461 ppbv
 RT: 9.51 min Scan# 2091
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

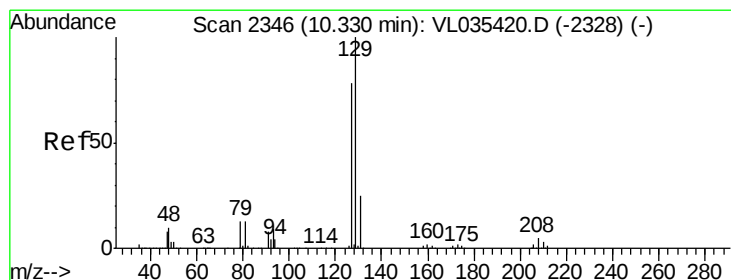
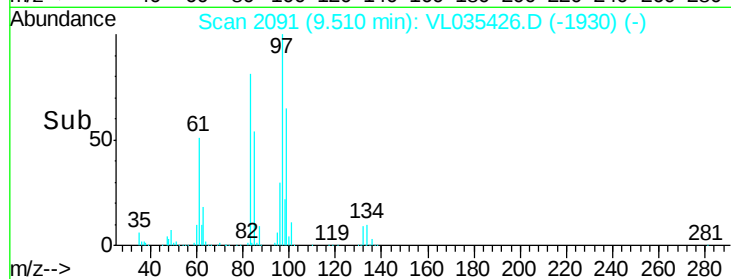
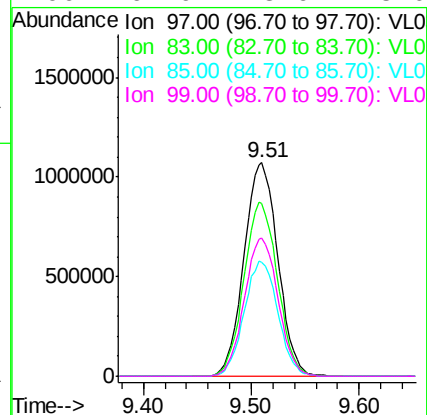
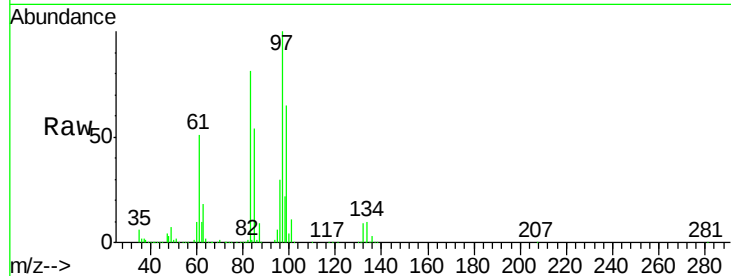
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 2341040

Ion	Ratio	Lower	Upper
97	100		
83	81.2	72.1	108.1
85	53.6	46.8	70.2
99	64.9	48.6	73.0

Manual Integrations
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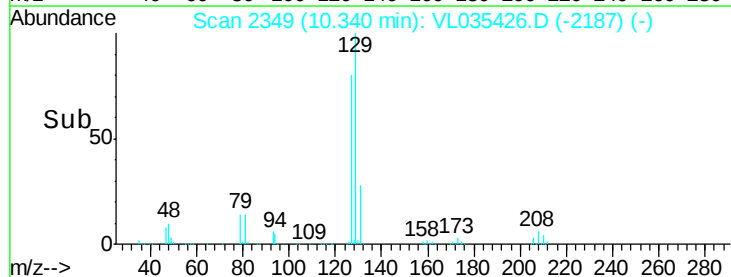
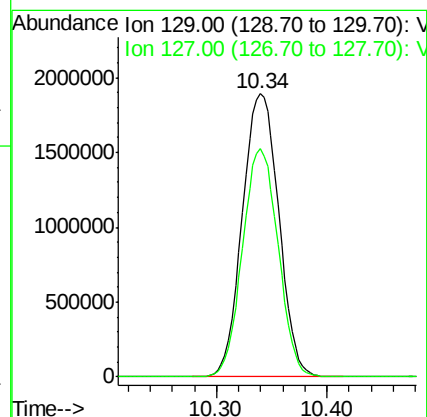
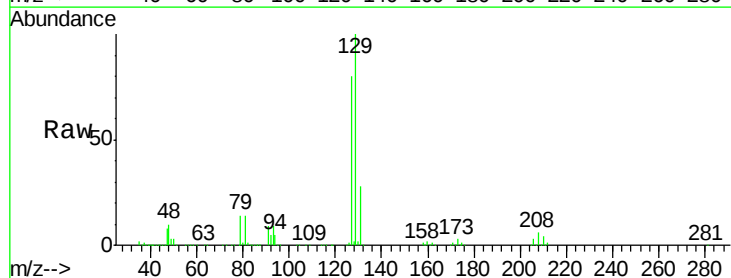
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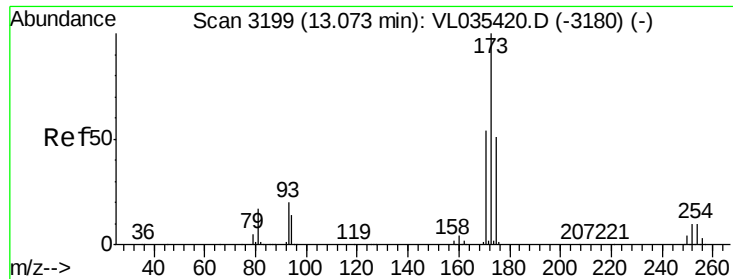


#48
 Dibromochloromethane
 Concen: 14.594 ppbv
 RT: 10.34 min Scan# 2349
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion: 129 Resp: 4341319

Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.5	118.5





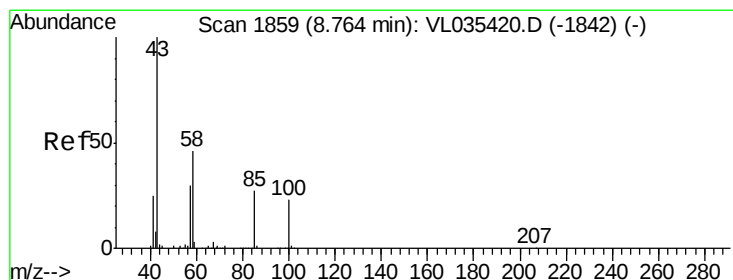
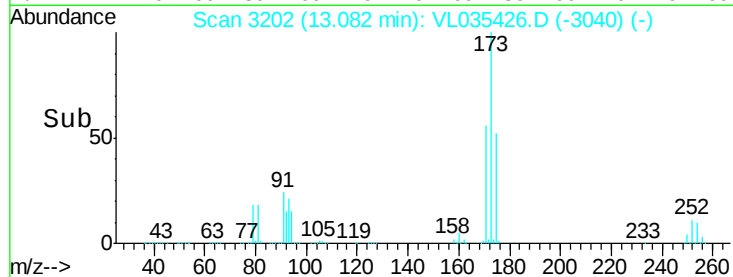
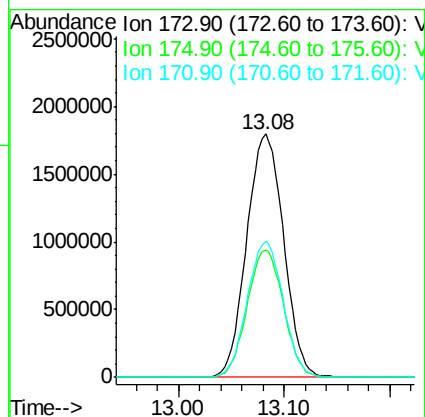
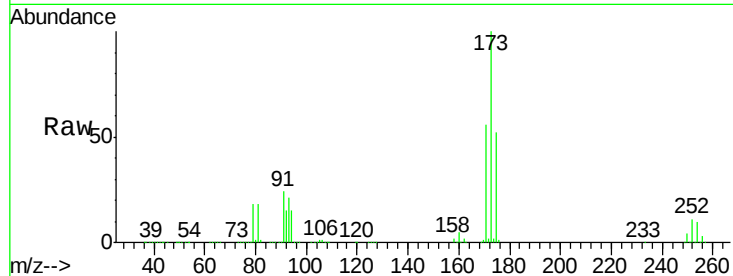
#49
Bromoform
Concen: 18.746 ppbv
RT: 13.08 min Scan# 3202
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:173 Resp: 4383704
Ion Ratio Lower Upper
173 100
175 51.6 39.8 59.8
171 54.5 42.4 63.6

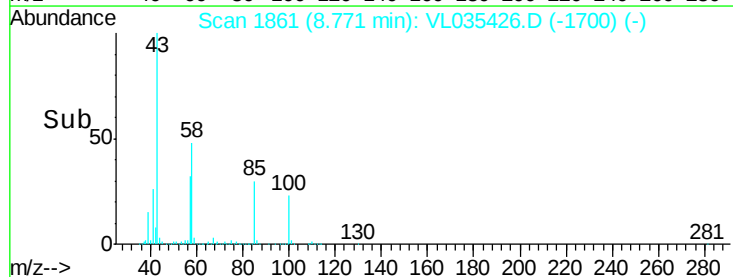
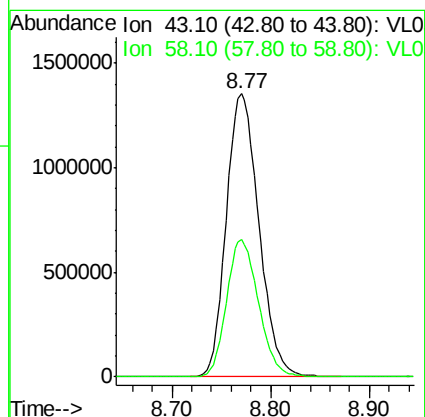
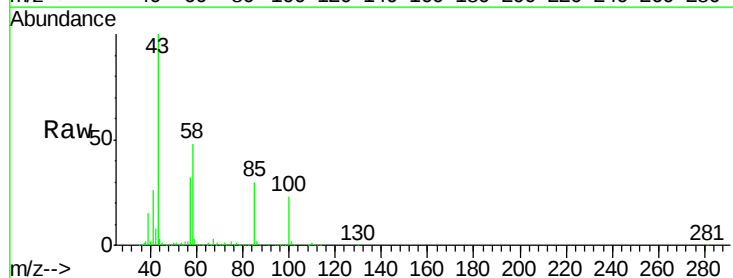
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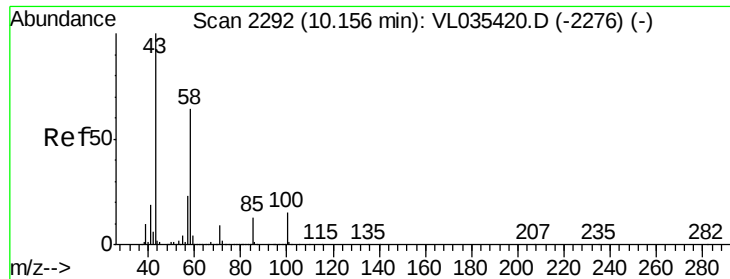
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#50
4-Methyl-2-Pentanone
Concen: 5.640 ppbv
RT: 8.77 min Scan# 1861
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion: 43 Resp: 3125010
Ion Ratio Lower Upper
43 100
58 47.7 28.7 43.1#





#51

2-Hexanone

Concen: 5.865 ppbv

RT: 10.16 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2758410

Ion Ratio Lower Upper

43 100

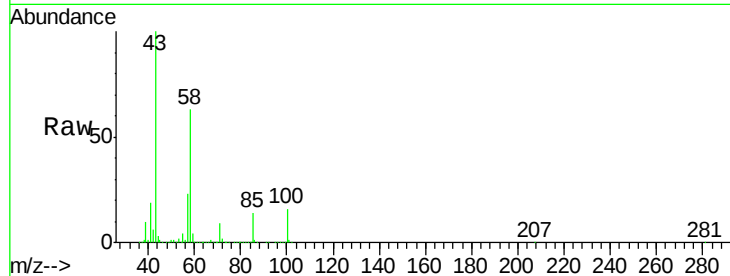
58 63.3 38.6 58.0#

98 0.3 0.2 0.2#

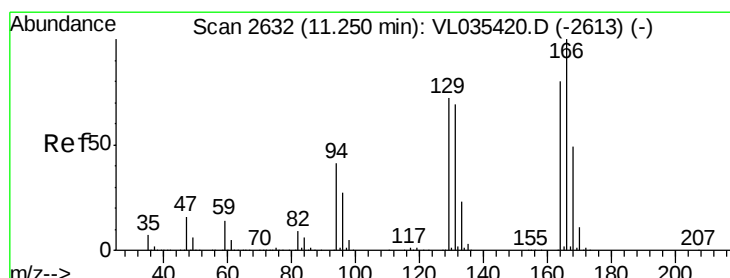
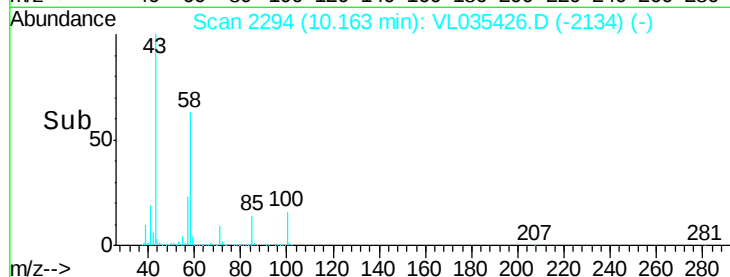
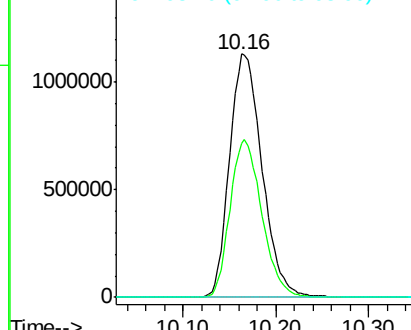
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 15.887 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion: 164 Resp: 2848375

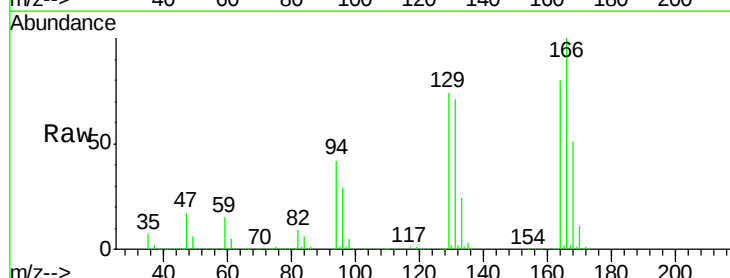
Ion Ratio Lower Upper

164 100

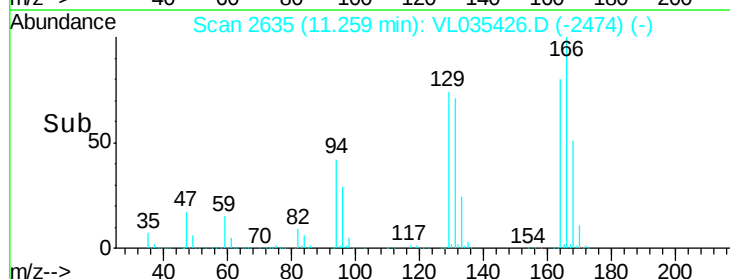
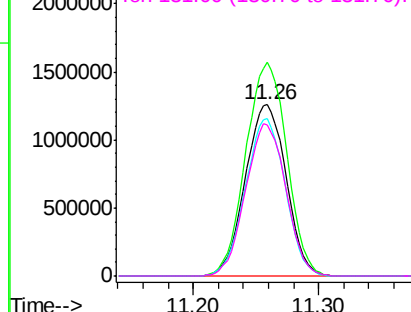
166 124.7 103.4 155.0

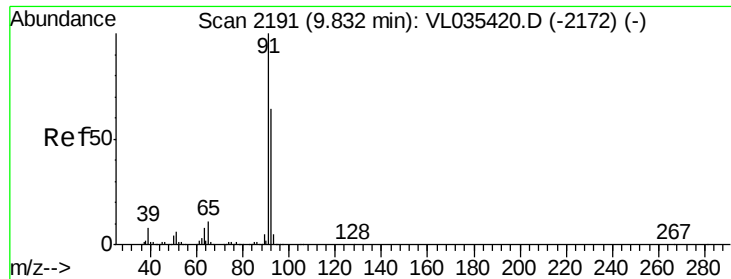
129 91.7 90.2 135.4

131 88.5 91.7 137.5#



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: 10.153 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5827675

Ion Ratio Lower Upper

91 100

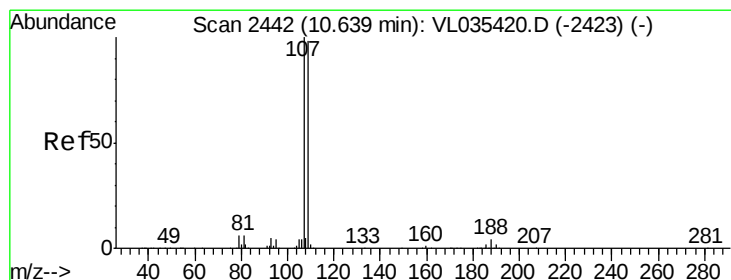
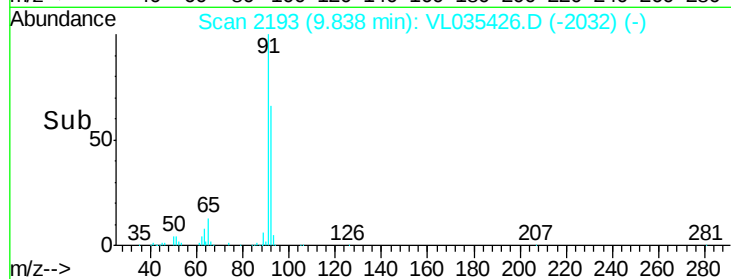
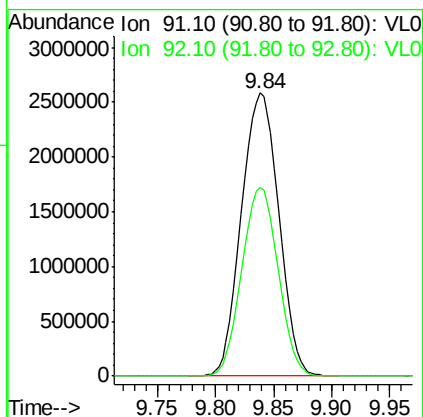
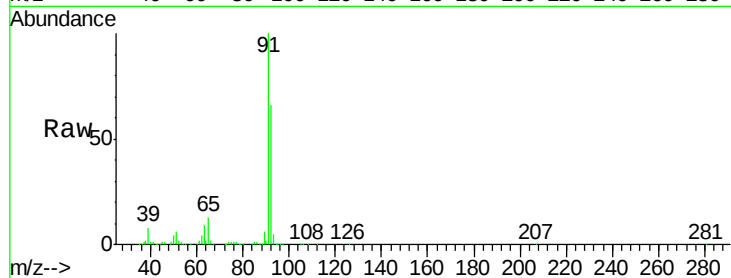
92 64.6 49.1 73.7

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#54

1,2-Dibromoethane

Concen: 11.992 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.01 min

Lab File: VL035426.D

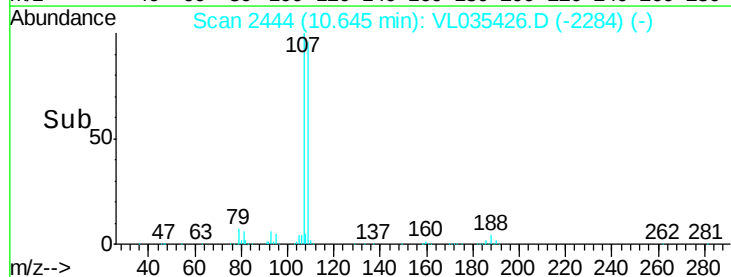
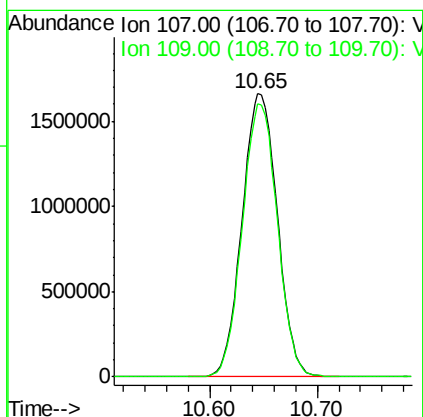
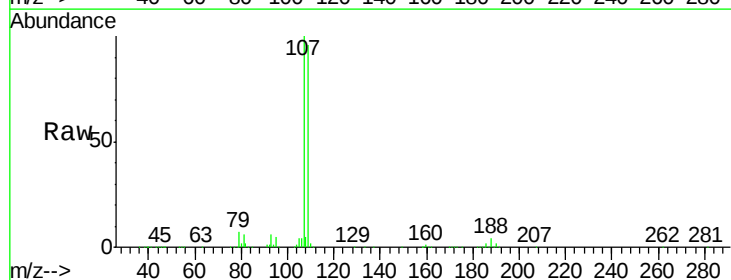
Acq: 17 Aug 2020 18:05

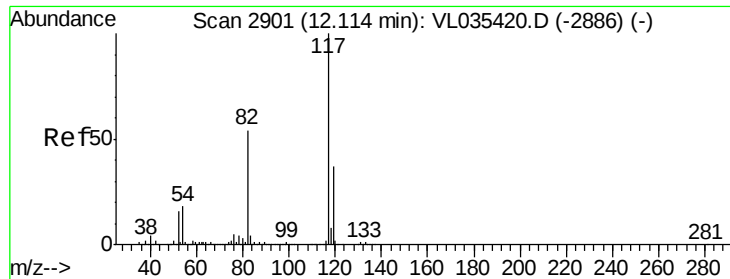
Tgt Ion: 107 Resp: 3780294

Ion Ratio Lower Upper

107 100

109 96.4 75.1 112.7





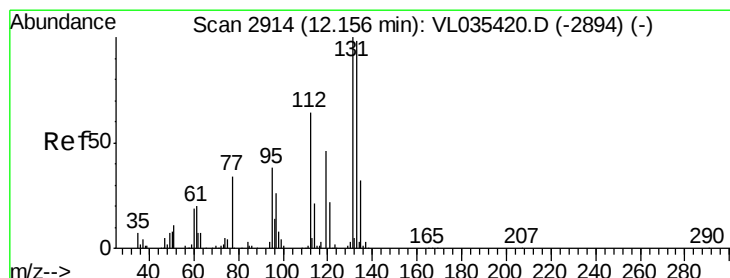
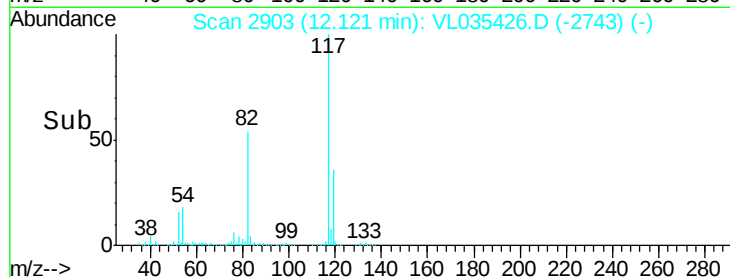
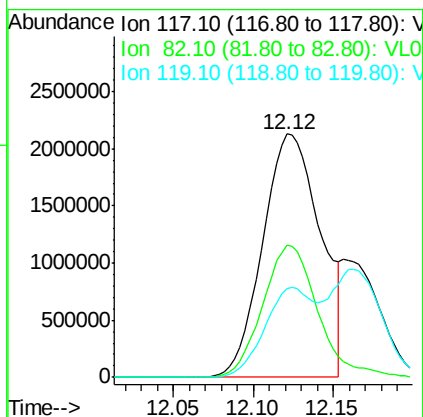
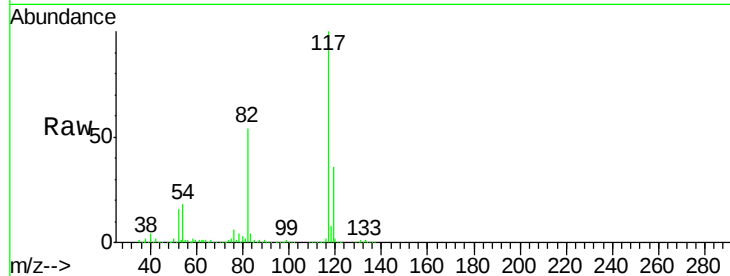
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 5357727
Ion Ratio Lower Upper
117 100
82 51.6 57.4 86.0#
119 0.0 28.4 42.6#

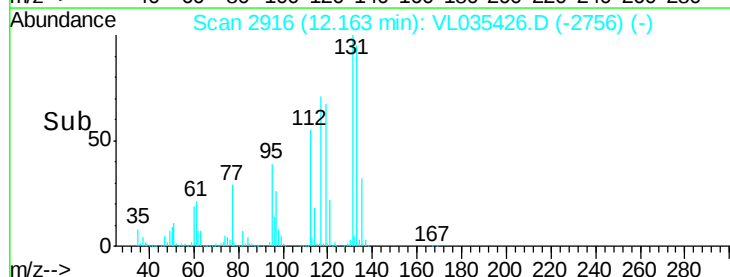
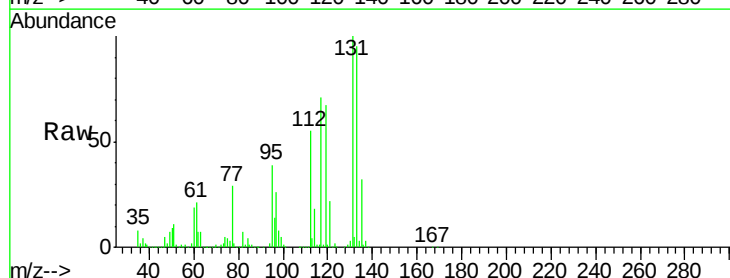
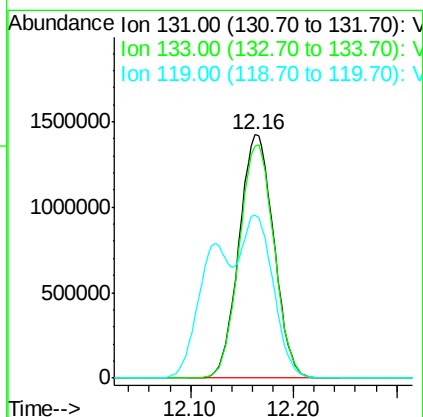
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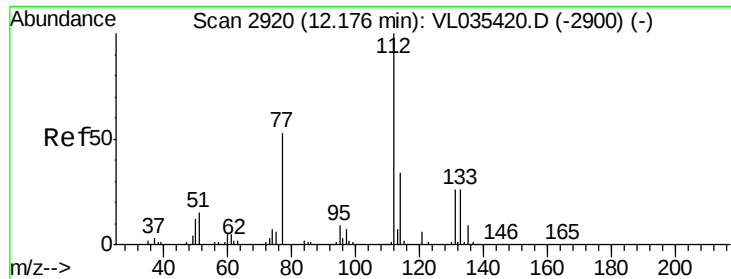
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.634 ppbv
RT: 12.16 min Scan# 2916
Delta R.T. 0.01 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion:131 Resp: 3330885
Ion Ratio Lower Upper
131 100
133 96.6 76.1 114.1
119 61.7 50.7 76.1





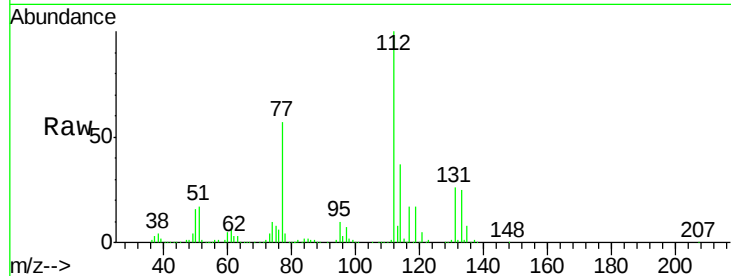
#57
Chlorobenzene
Concen: 10.546 ppbv
RT: 12.19 min Scan# 2923
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

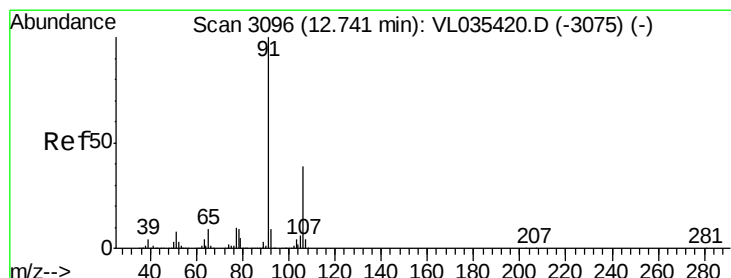
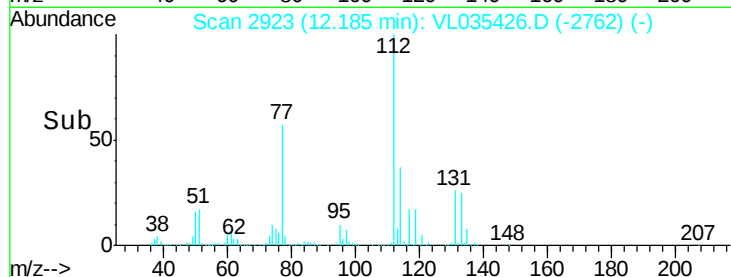
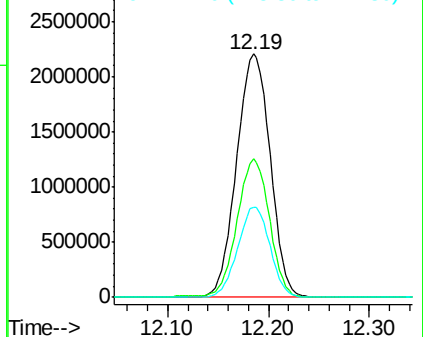
Tot Ion	Ratio	Lower	Upper
112	100		
77	56.6	60.6	91.0#
114	36.7	28.5	34.9#

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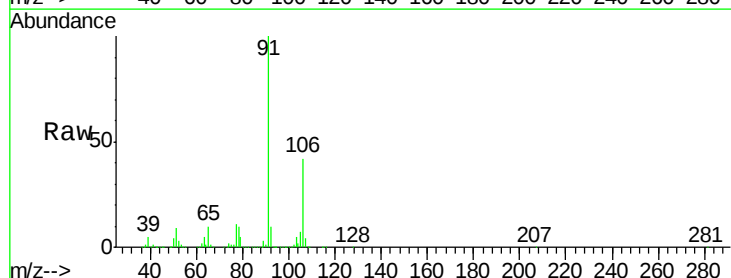


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

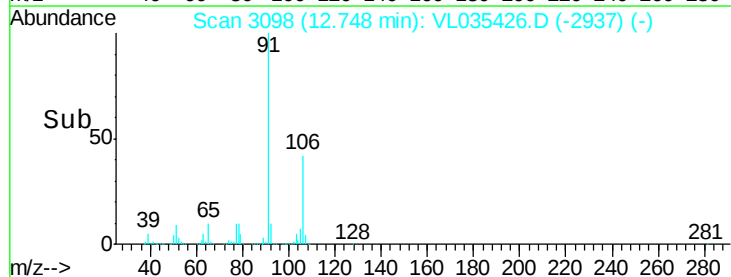
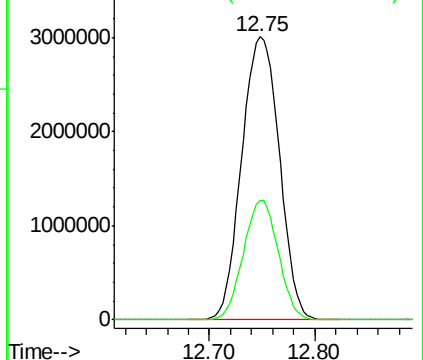


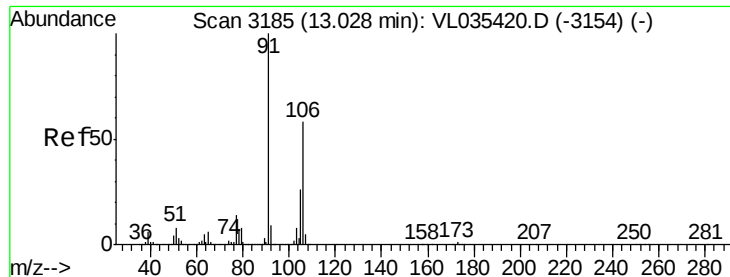
#58
Ethyl Benzene
Concen: 8.452 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.4	24.1	36.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





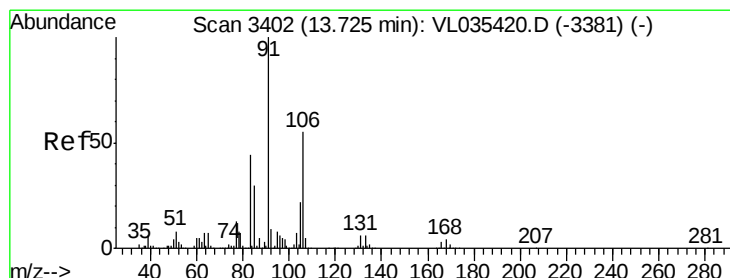
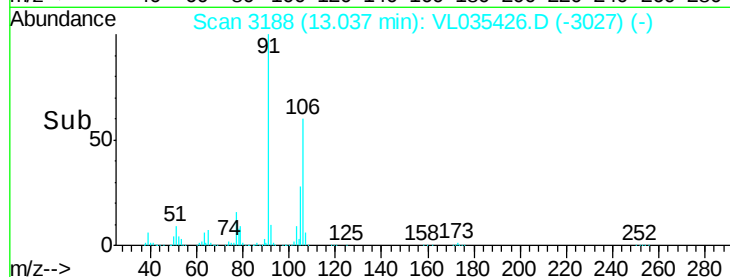
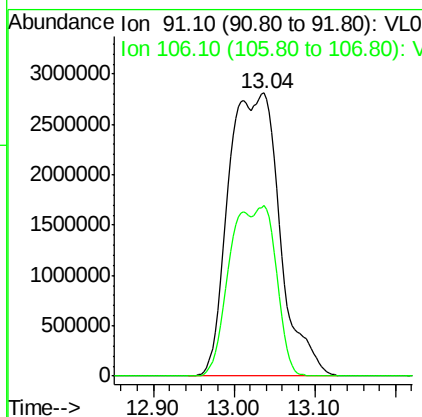
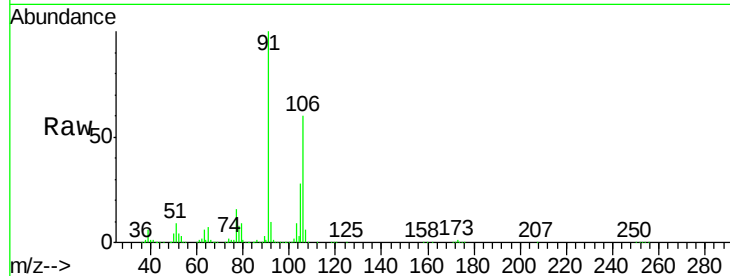
#59
m/p-Xylene
Concen: 16.983 ppbv m
RT: 13.04 min Scan# 3188
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:12567728
Ion Ratio Lower Upper
91 100
106 54.5 34.0 51.0#

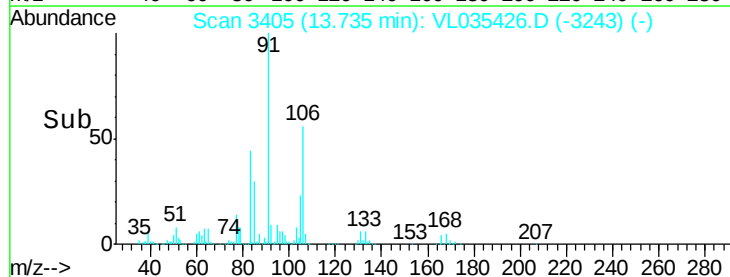
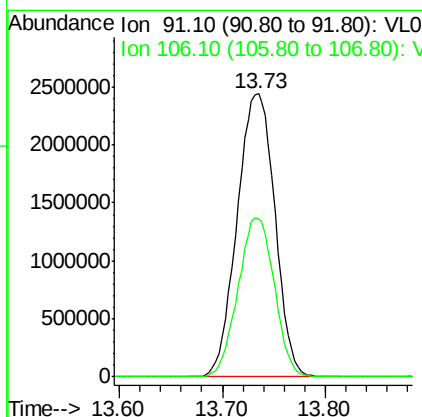
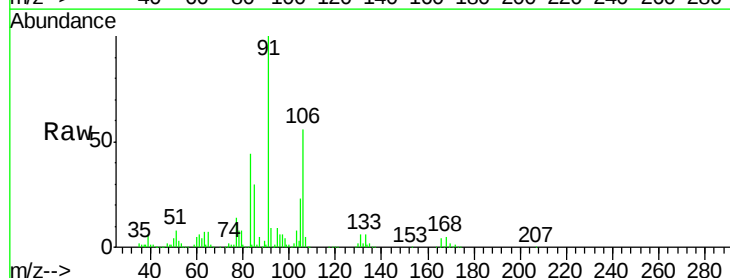
Manual Integrations
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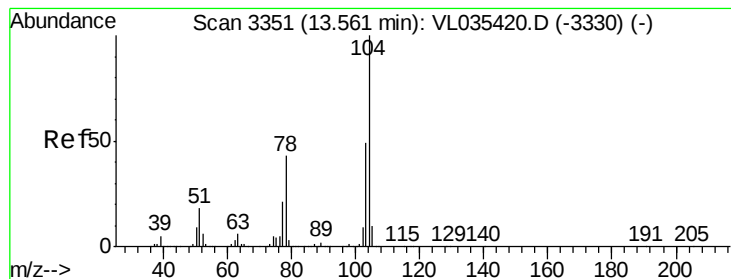
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#60
o-Xylene
Concen: 8.521 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.02 min
Lab File: VL035426.D
Acq: 17 Aug 2020 18:05

Tgt Ion: 91 Resp: 6205382
Ion Ratio Lower Upper
91 100
106 54.1 21.8 65.3





#61

Stvrene

Concen: 10.911 ppbv

RT: 13.57 min Scan# 3353

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 5426207

Ion Ratio Lower Upper

104 100

78 44.3 45.4 68.2#

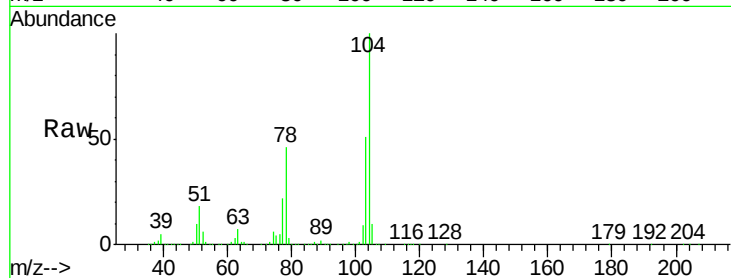
103 48.8 37.8 56.8

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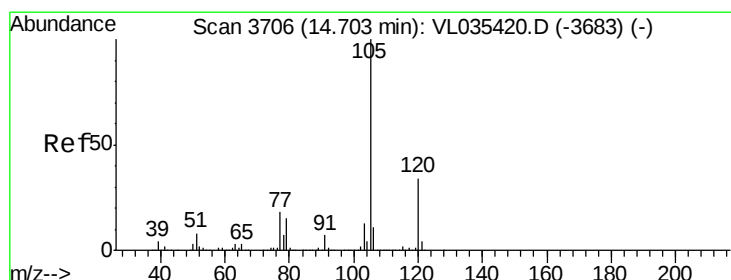
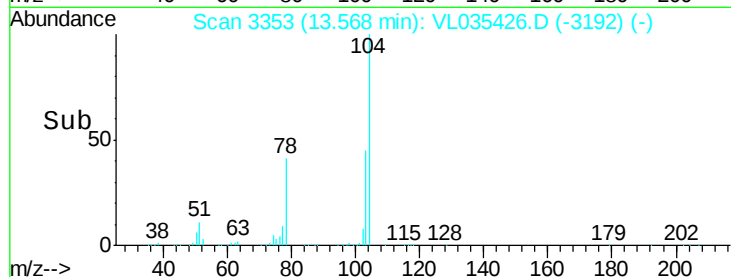
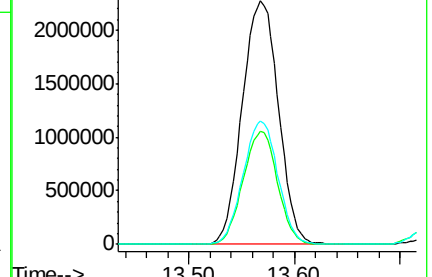
8/20/2020 11:05:48 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 8.710 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. 0.02 min

Lab File: VL035426.D

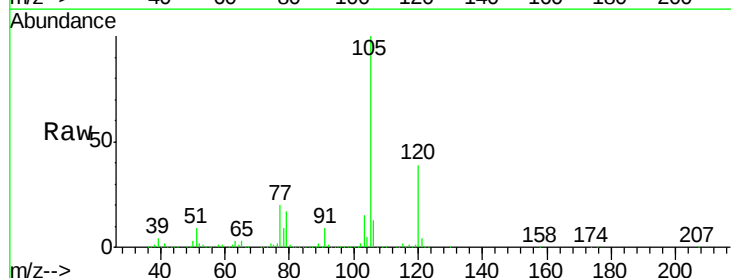
Acq: 17 Aug 2020 18:05

Tgt Ion:105 Resp: 9360338

Ion Ratio Lower Upper

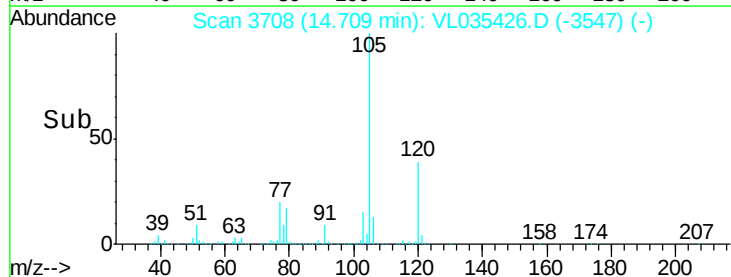
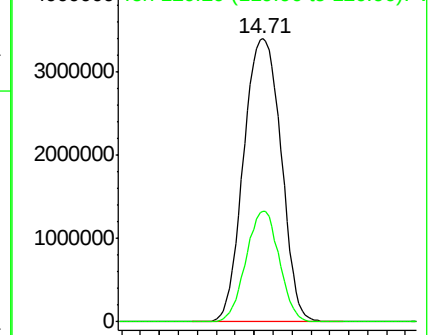
105 100

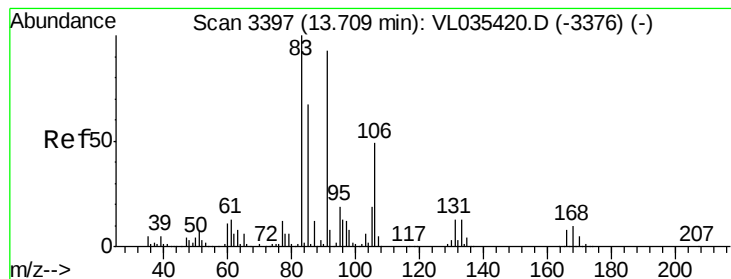
120 34.8 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.680 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 4339754

Ion Ratio Lower Upper

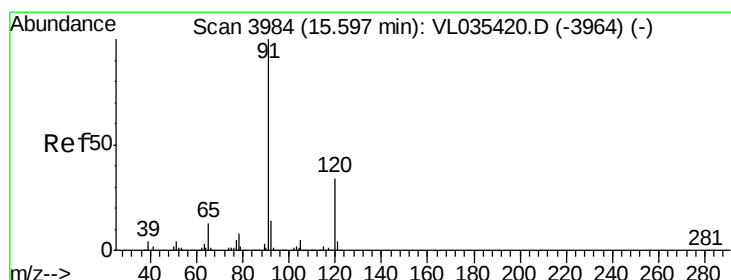
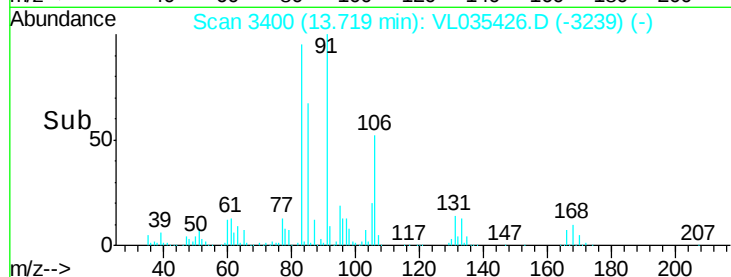
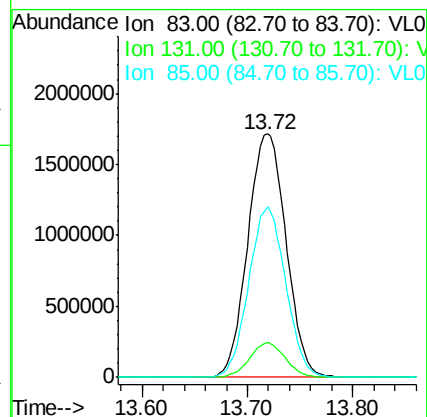
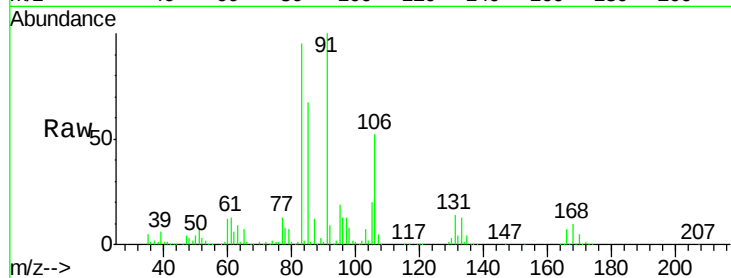
83 100

131 13.3 4.5 13.4

85 67.7 32.7 98.1

Manual Integrations
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#64

n-propylbenzene

Concen: 12.417 ppbv

RT: 15.60 min Scan# 3986

Delta R.T. 0.02 min

Lab File: VL035426.D

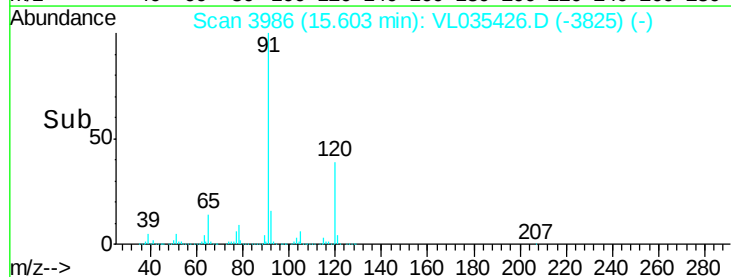
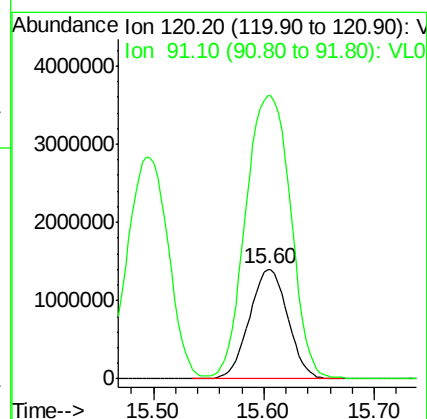
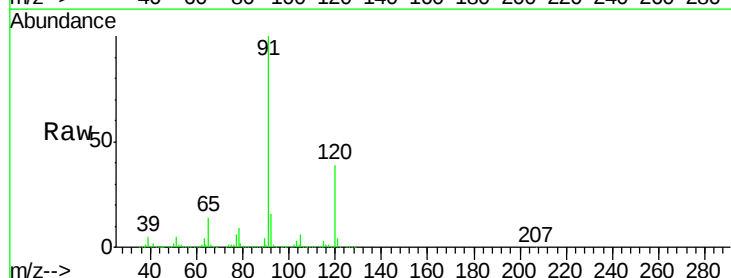
Acq: 17 Aug 2020 18:05

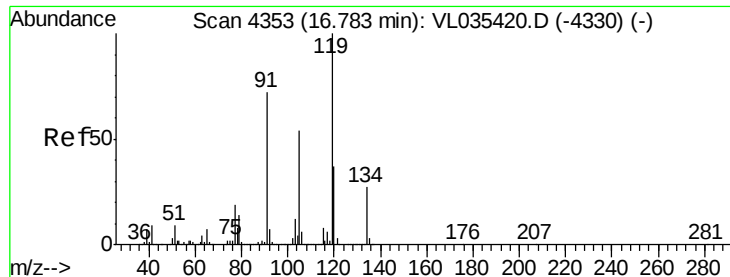
Tgt Ion: 120 Resp: 3382743

Ion Ratio Lower Upper

120 100

91 303.0 385.5 578.3#





#65

tert-Butylbenzene

Concen: 9.996 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 9204187

Ion Ratio Lower Upper

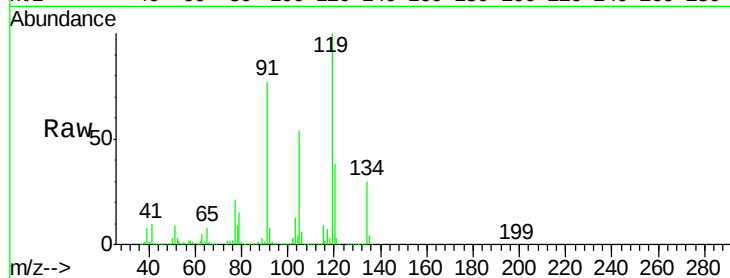
119 100

91 73.8 72.0 108.0

134 25.8 15.7 23.5#

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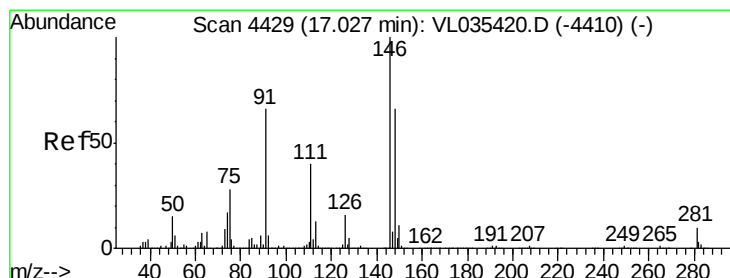
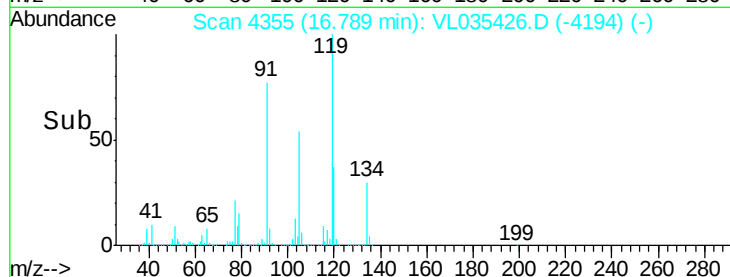
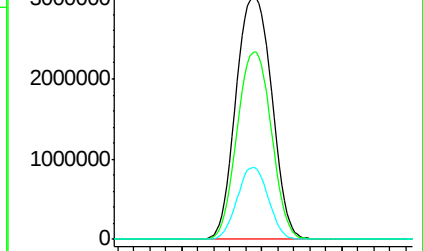
MMDadoda
8/20/2020 11:05:48 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.269 ppbv

RT: 17.03 min Scan# 4431

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

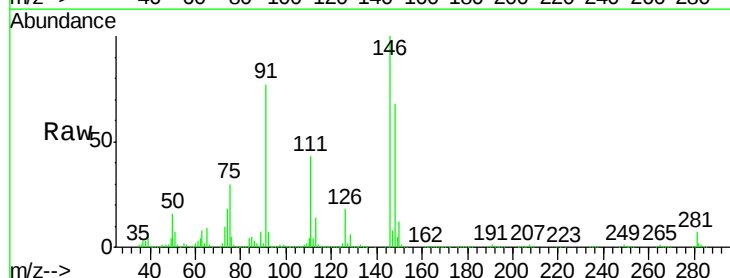
Tgt Ion: 91 Resp: 3699457

Ion Ratio Lower Upper

91 100

126 23.4 13.3 19.9#

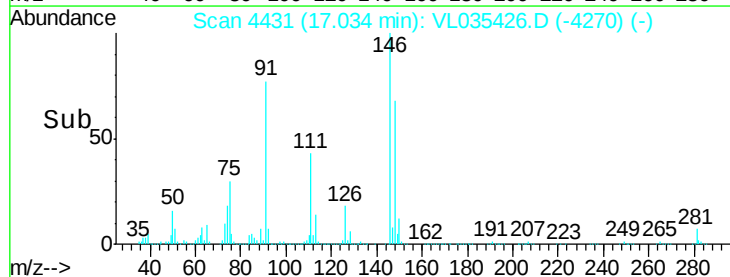
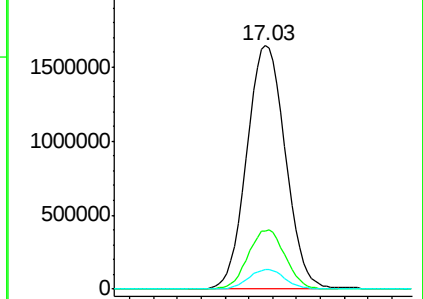
128 7.7 4.1 6.1#

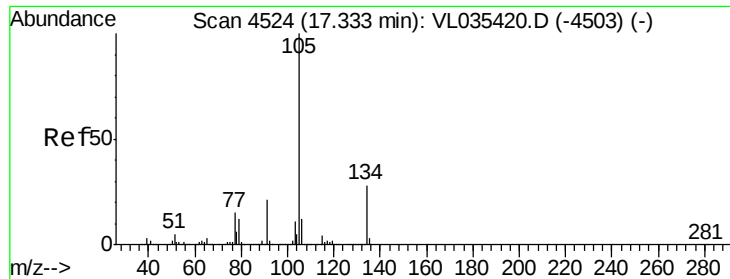


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.246 ppbv

RT: 17.34 min Scan# 4526

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:11212144

Ion Ratio Lower Upper

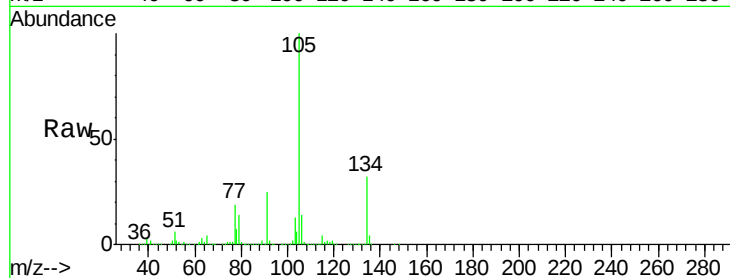
105 100

134 28.0 14.1 21.1#

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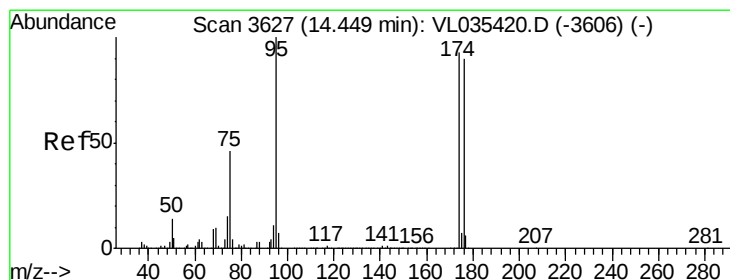
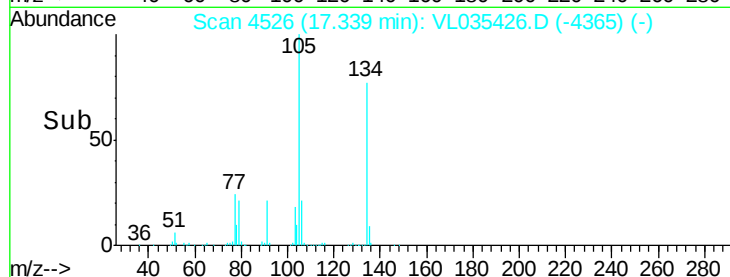
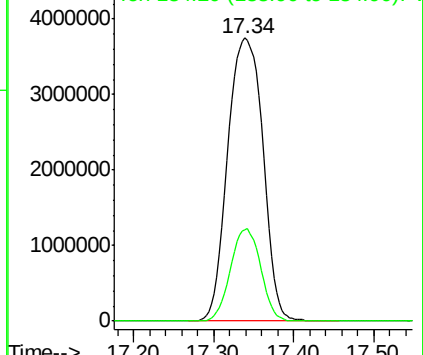
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.039 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

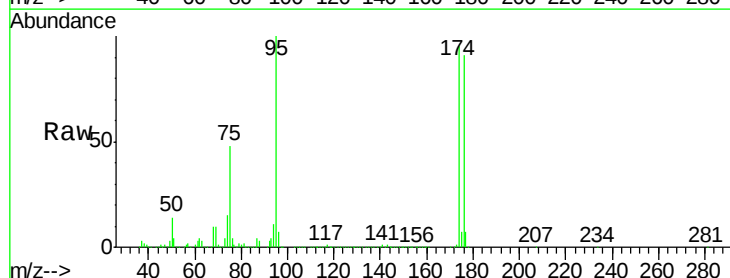
Tgt Ion: 95 Resp: 3647140

Ion Ratio Lower Upper

95 100

174 95.5 44.0 66.0#

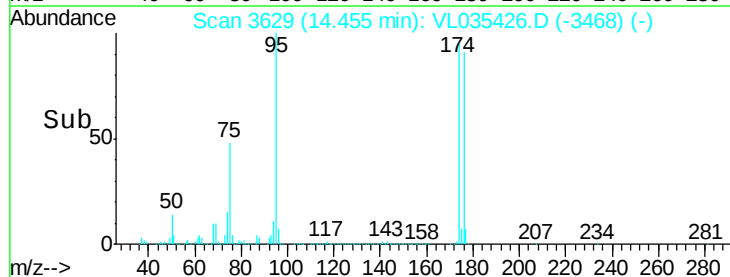
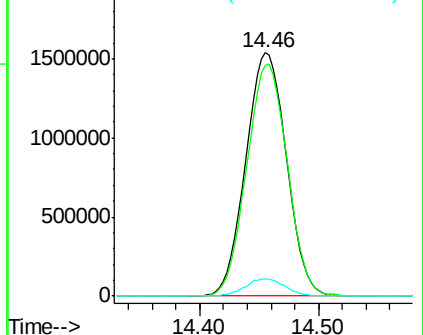
175 7.0 3.2 4.8#

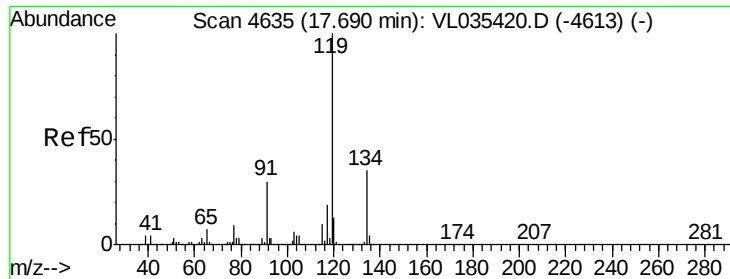


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





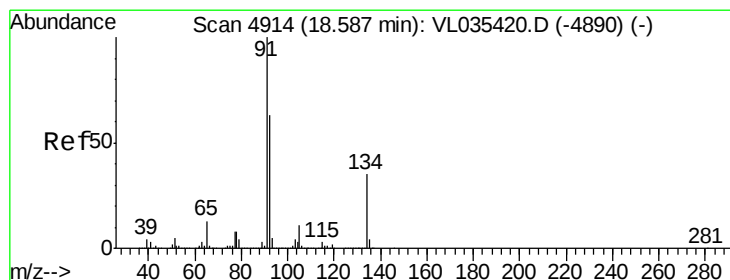
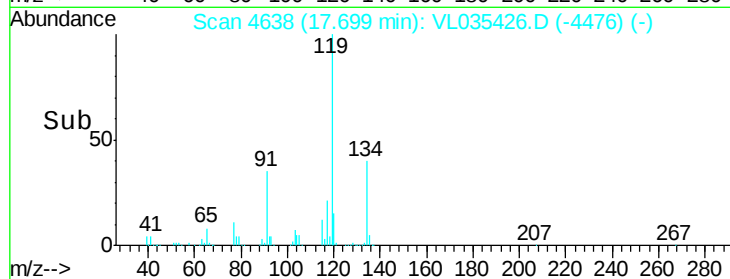
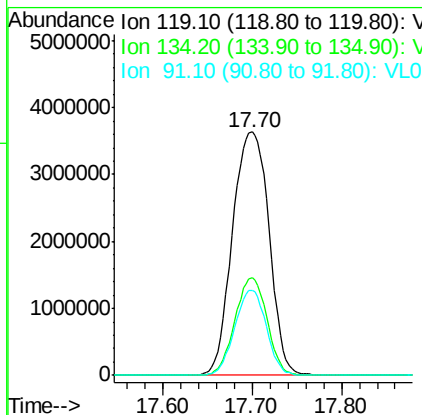
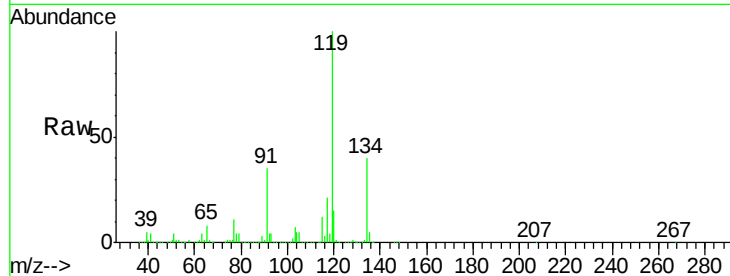
#69
 p-Isopropyltoluene
 Concen: 9.349 ppbv
 RT: 17.70 min Scan# 4638
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp:10350422
 Ion Ratio Lower Upper
 119 100
 134 35.2 20.6 30.8#
 91 30.3 26.6 39.8

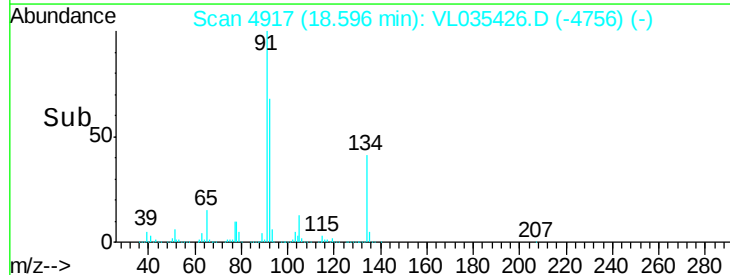
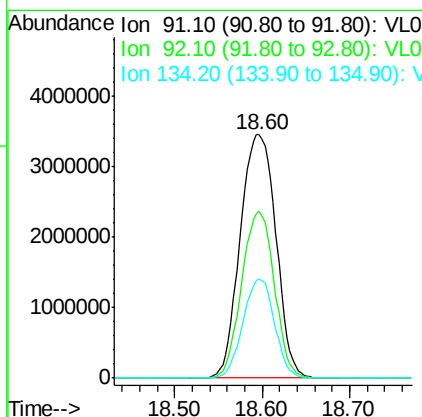
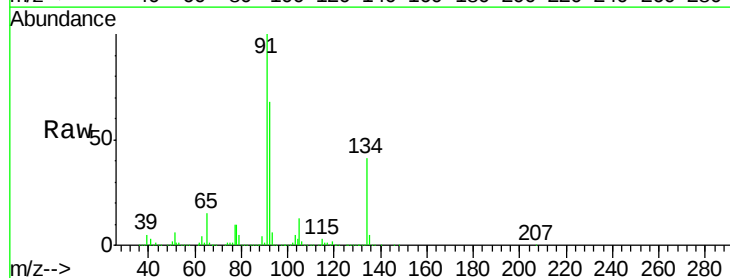
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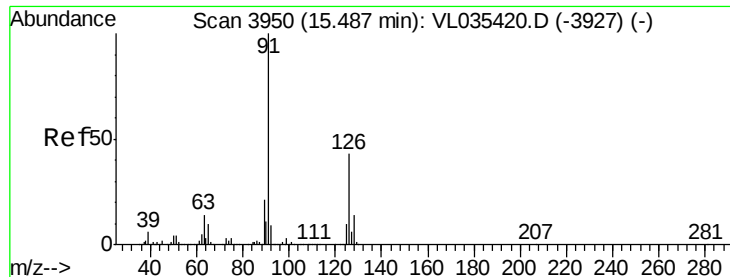
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#70
 n-Butylbenzene
 Concen: 7.539 ppbv
 RT: 18.60 min Scan# 4917
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion: 91 Resp: 9757093
 Ion Ratio Lower Upper
 91 100
 92 62.7 44.8 67.2
 134 36.0 17.3 25.9#





#71

2-Chlorotoluene

Concen: 8.327 ppbv

RT: 15.49 min Scan# 3952

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7321781

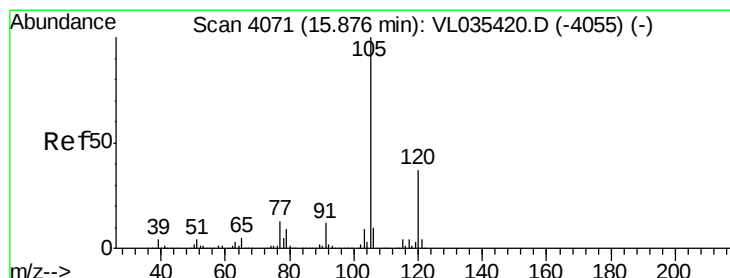
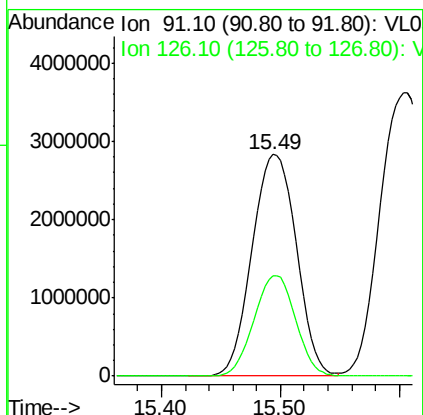
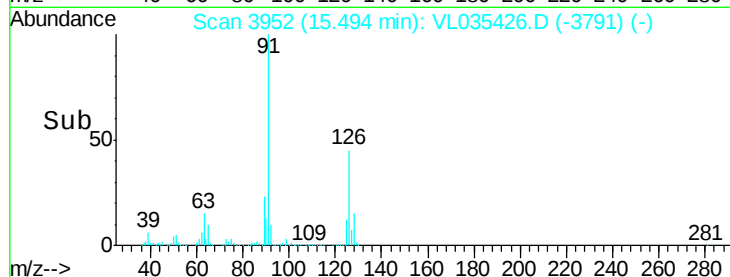
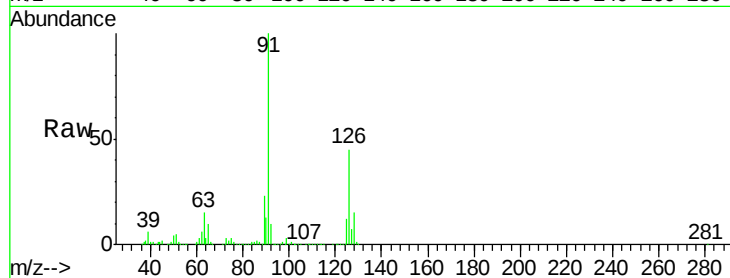
Ion Ratio Lower Upper

91 100

126 42.7 11.4 45.6

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#72

4-Ethyltoluene

Concen: 9.428 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion: 105 Resp: 8044900

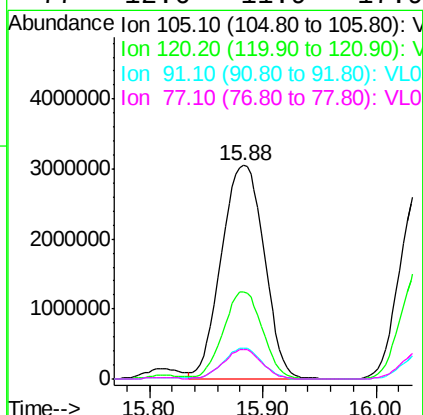
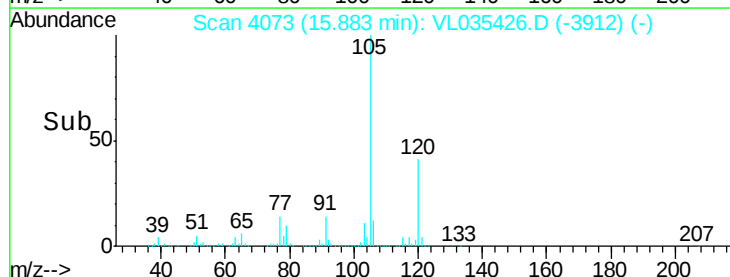
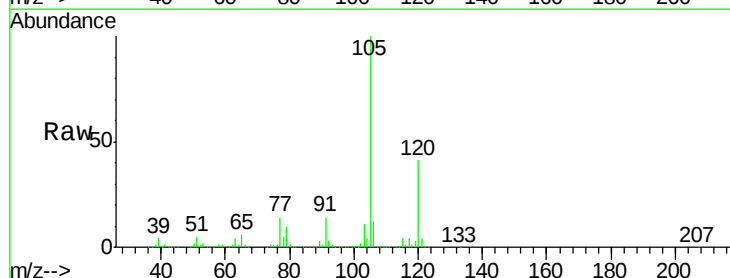
Ion Ratio Lower Upper

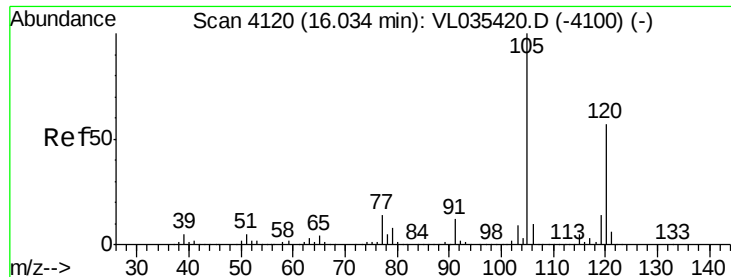
105 100

120 37.7 22.7 34.1#

91 13.0 10.8 16.2

77 12.6 11.9 17.9





#73

1,3,5-Trimethylbenzene

Concen: 9.385 ppbv

RT: 16.04 min Scan# 4122

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7560046

Ion Ratio Lower Upper

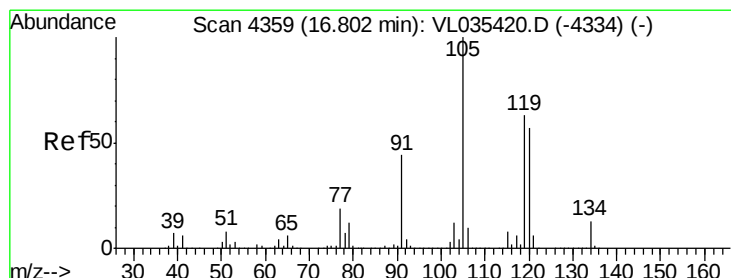
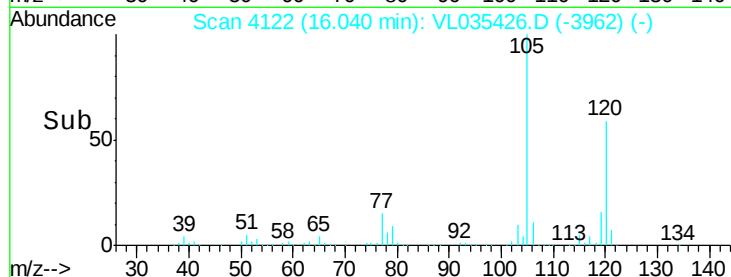
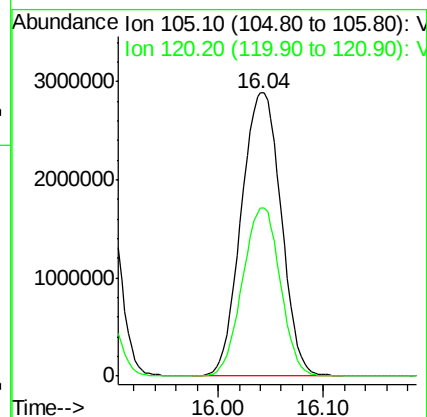
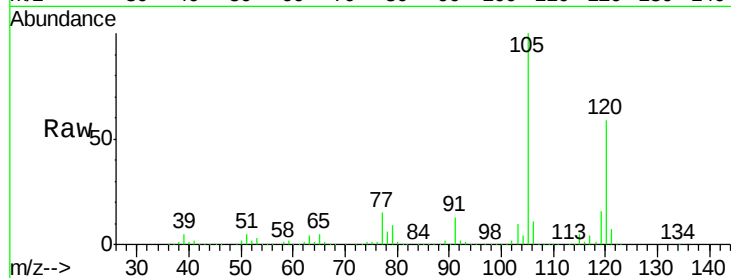
105 100

120 59.5 35.6 53.4#

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#74

1,2,4-Trimethylbenzene

Concen: 8.893 ppbv

RT: 16.81 min Scan# 4361

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Tgt Ion:105 Resp: 7670324

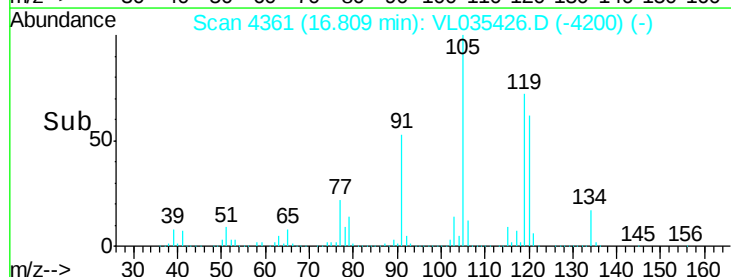
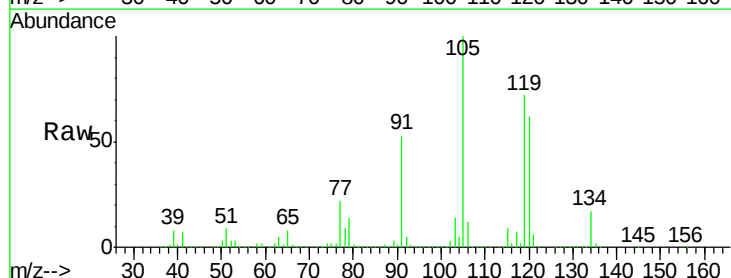
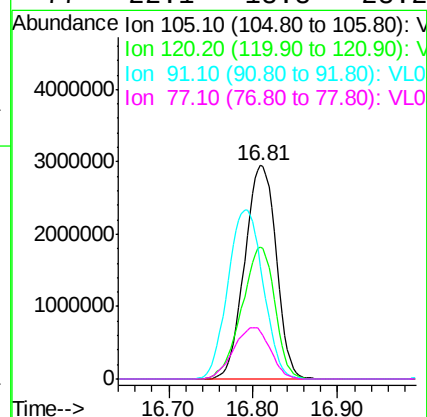
Ion Ratio Lower Upper

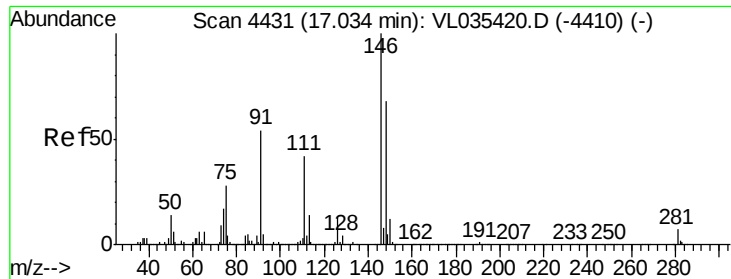
105 100

120 61.5 37.8 56.8#

91 52.9 40.0 60.0

77 22.1 18.8 28.2





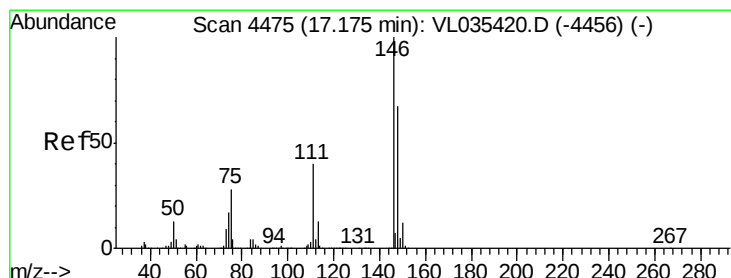
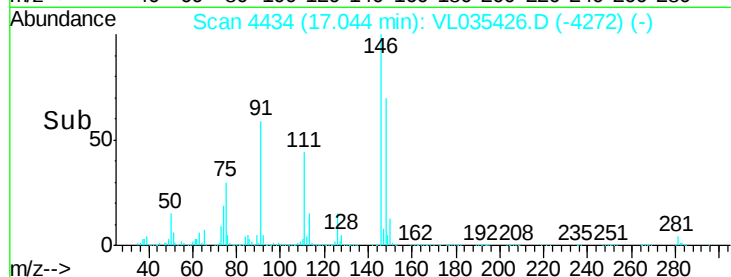
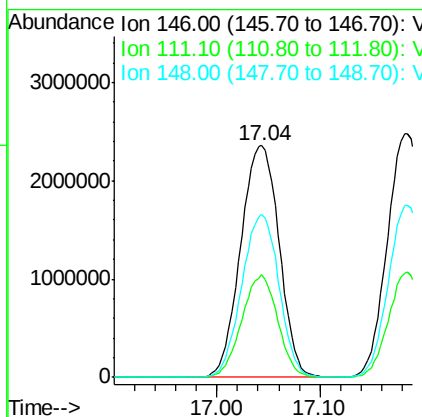
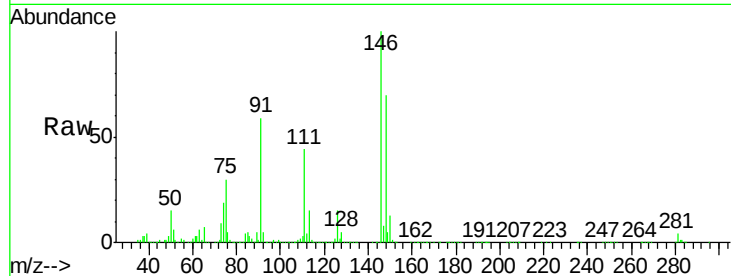
#75
 1,3-Dichlorobenzene
 Concen: 13.043 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 6123533
 Ion Ratio Lower Upper
 146 100
 111 41.3 25.6 76.8
 148 67.9 32.3 96.9

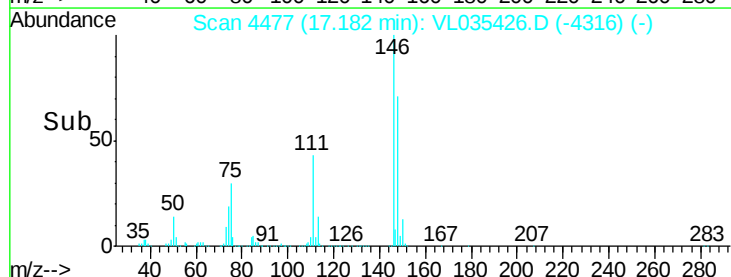
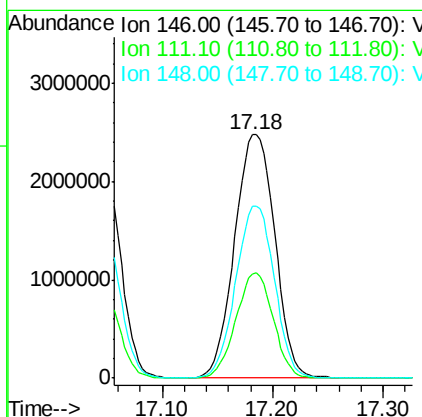
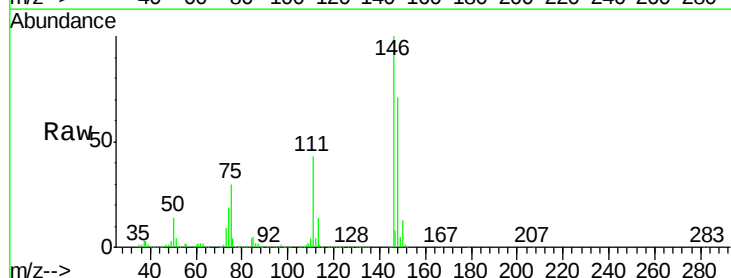
Manual Integrations
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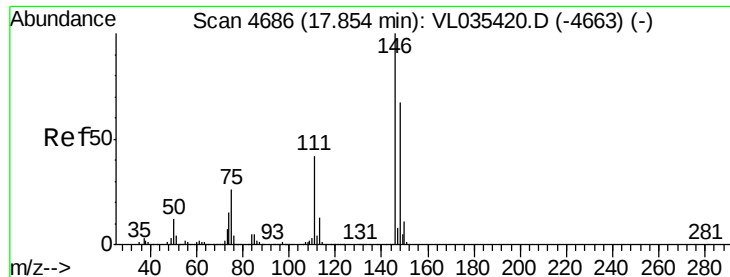
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#76
 1,4-Dichlorobenzene
 Concen: 12.953 ppbv
 RT: 17.18 min Scan# 4477
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Tgt Ion:146 Resp: 6236233
 Ion Ratio Lower Upper
 146 100
 111 40.5 24.8 74.4
 148 68.7 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 12.984 ppbv

RT: 17.86 min Scan# 4689

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 6142153

Ion Ratio Lower Upper

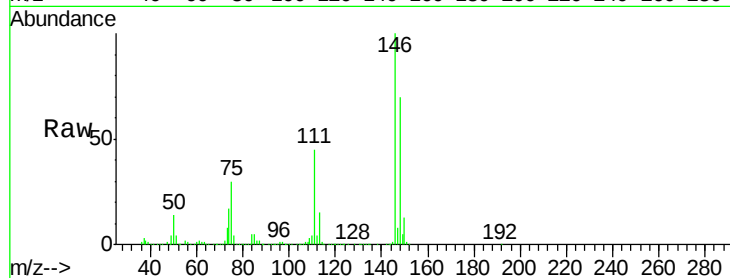
146 100

111 42.6 26.3 78.9

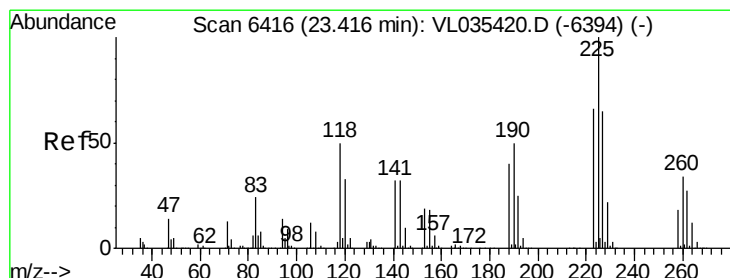
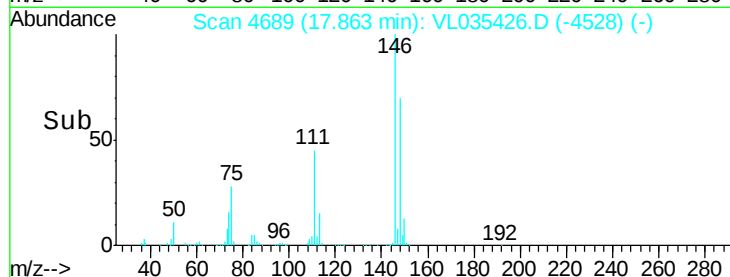
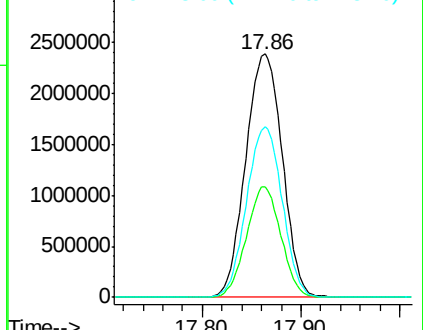
148 68.1 32.0 96.0

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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: 12.700 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

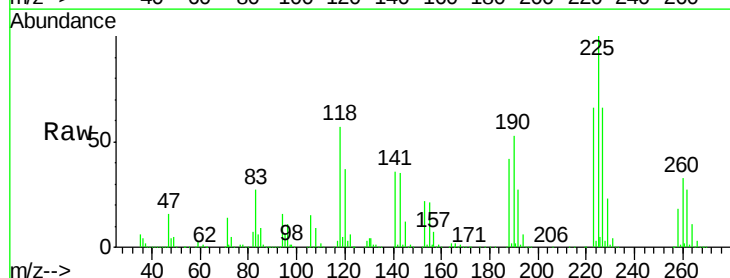
Tgt Ion:225 Resp: 4614255

Ion Ratio Lower Upper

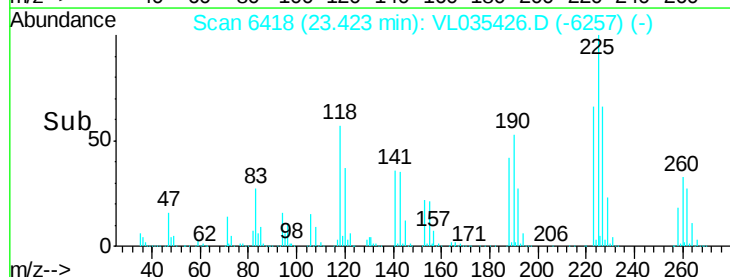
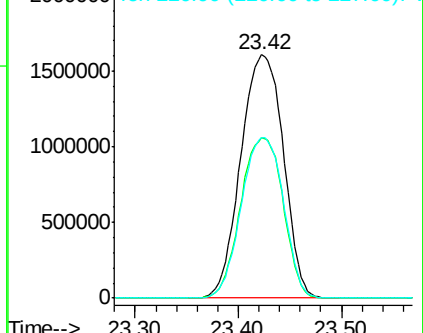
225 100

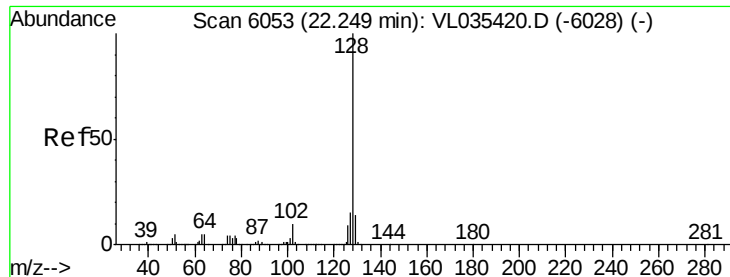
223 65.6 50.3 75.5

227 65.3 51.0 76.6



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: 11.129 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.02 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp:11206035

Ion Ratio Lower Upper

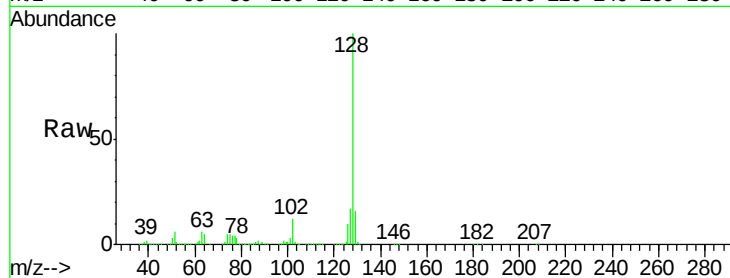
128 100

127 17.0 11.4 17.0

129 15.7 9.5 14.3#

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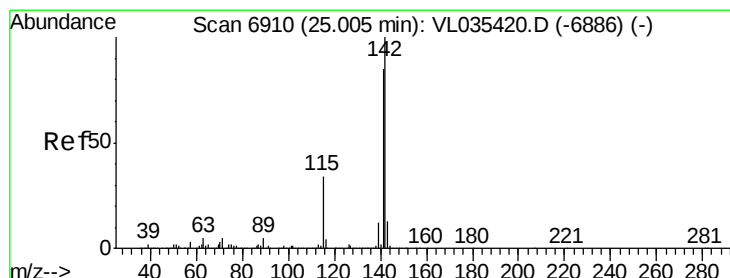
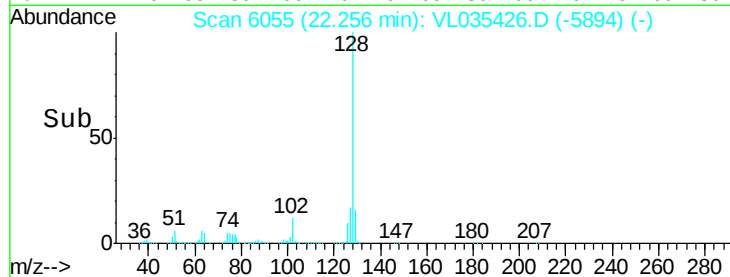
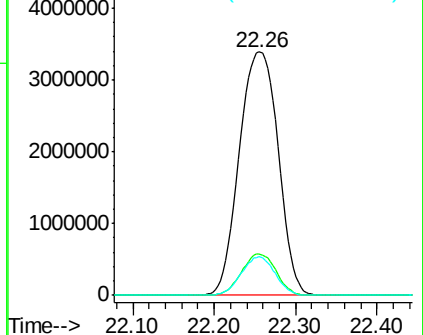
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.217 ppbv

RT: 25.01 min Scan# 6912

Delta R.T. 0.01 min

Lab File: VL035426.D

Acq: 17 Aug 2020 18:05

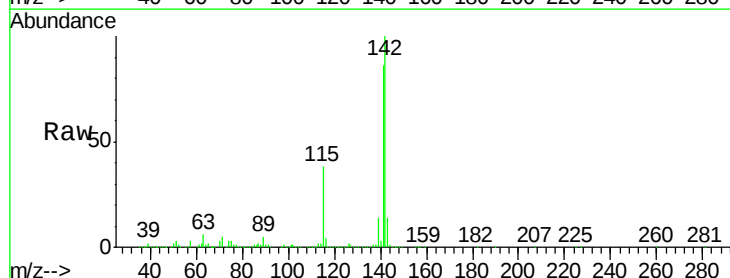
Tgt Ion:142 Resp: 5973142

Ion Ratio Lower Upper

142 100

141 85.4 67.1 100.7

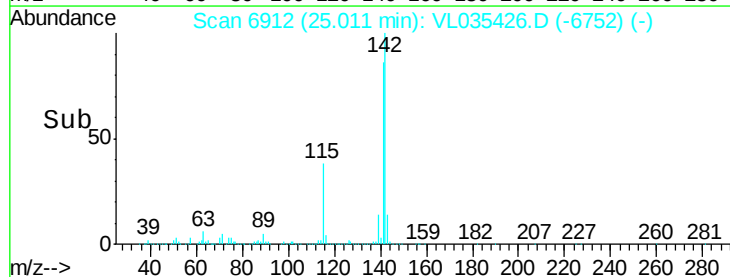
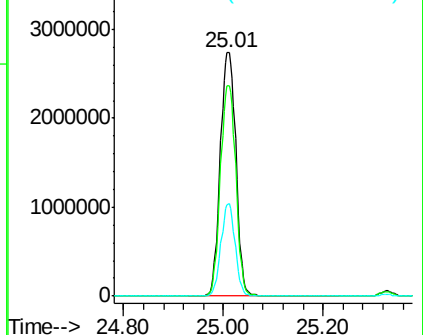
115 34.5 36.1 54.1#

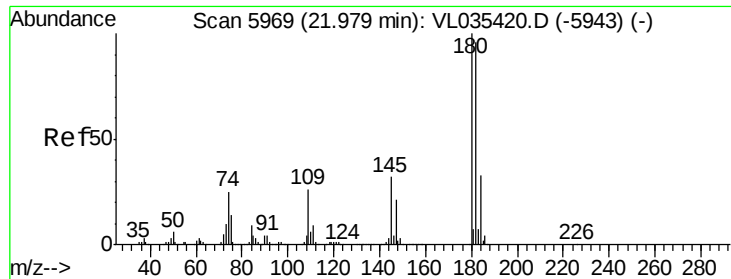


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 14.779 ppbv
 RT: 21.99 min Scan# 5971
 Delta R.T. 0.02 min
 Lab File: VL035426.D
 Acq: 17 Aug 2020 18:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.6	115.0
184	33.1	24.8	37.2

Manual Integrations
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