

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL092921\
 Data File : VL037729.D
 Acq On : 29 Sep 2021 12:47
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda

10/1/2021 11:06:24 AM

Quant Time: Sep 29 23:01:29 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Sep 1

QLast Update : Thu Sep 16 13:42:46 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1307694	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3924644	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	3377948m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2592336	10.62	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	1928833	8.151	ppbv 100
3) Chlorodifluoromethane	2.99	51	2498413	10.129	ppbv 99
4) Chloromethane	3.14	50	958699	10.520	ppbv 97
5) Vinyl Chloride	3.26	62	916537	10.707	ppbv 98
6) Bromomethane	3.47	94	487961	9.808	ppbv 97
7) Chloroethane	3.56	64	323074	10.099	ppbv 95
8) Dichlorotetrafluoroethane	3.19	85	2149549	10.530	ppbv 99
9) Propene	3.02	41	950282	10.922	ppbv 93
10) Heptane	8.12	43	2291303	11.286	ppbv 100
11) Trichlorofluoromethane	3.95	101	1954320	10.287	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1432269	10.214	ppbv 100
13) Ethanol	3.62	45	84994	9.987	ppbv 97
14) Bromoethene	3.75	108	672345	10.533	ppbv 98
15) Acetone	3.85	43	1100174	8.097	ppbv 97
16) 1,3-Butadiene	3.33	39	923976	10.883	ppbv 99
17) tert-Butyl alcohol	4.29	59	1349180	11.710	ppbv 97
18) 1,1-Dichloroethene	4.29	96	673781	10.314	ppbv 97
19) Isopropyl Alcohol	3.96	45	787180	10.648	ppbv # 97
20) Methylene Chloride	4.34	84	589739	9.092	ppbv 97
21) Allyl Chloride	4.42	41	1091271	10.751	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	675438	10.277	ppbv 97
23) Vinyl Acetate	5.07	43	1976698	10.514	ppbv 98
24) 1,1-Dichloroethane	5.01	63	1381460	10.257	ppbv 98
25) Ethyl Acetate	5.68	43	3626855	11.022	ppbv 98
26) Hexane	5.69	57	1700676	10.880	ppbv 99
27) Carbon Disulfide	4.55	76	1611823	11.271	ppbv 99
28) Methyl tert-Butyl Ether	5.03	73	1456705	10.580	ppbv 99
29) Chloroform	5.75	83	2316121	10.147	ppbv 97
30) Cyclohexane	7.13	84	1428898	10.688	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	1582341	11.150	ppbv 96
32) 1,1,1-Trichloroethane	6.51	97	2224734	10.469	ppbv 99
34) 2-Butanone	5.25	43	1580514	9.910	ppbv 99
35) Carbon Tetrachloride	7.02	117	2295126	10.338	ppbv 100
36) Benzene	6.89	78	3526008	10.774	ppbv 99
37) 1,2-Dichloroethane	6.31	62	1658580	10.305	ppbv 100
38) Trichloroethene	7.83	130	1359348	9.944	ppbv 97
39) 1,2-Dichloropropane	7.61	63	1366273	10.900	ppbv 97
40) 1,4-Dioxane	7.83	88	327914	10.755	ppbv # 1
41) Tetrahydrofuran	6.05	42	841802	11.228	ppbv 99
42) Bromodichloromethane	7.79	83	2456393	10.648	ppbv 97
43) Methyl Methacrylate	8.01	69	1280238	11.759	ppbv 99

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Manual Integrations
 APPROVED

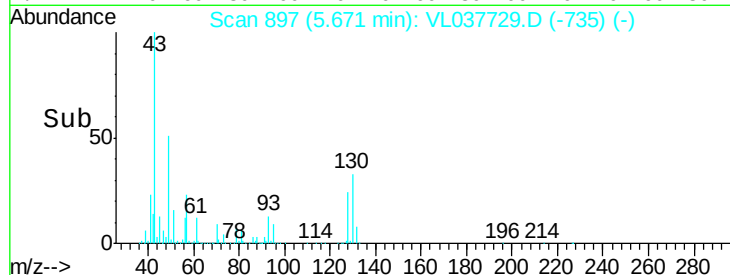
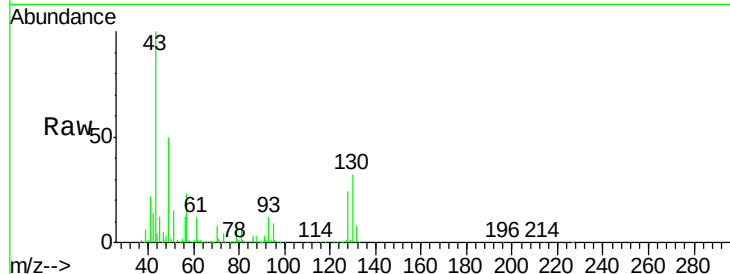
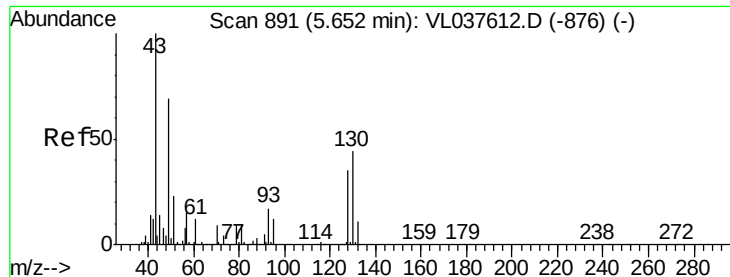
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10/1/2021 11:06:24 AM

Quant Time: Sep 29 23:01:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	5895084	10.715	ppbv	99
45) t-1,3-Dichloropropene	9.28	75	972741	11.375	ppbv	98
46) cis-1,3-Dichloropropene	8.70	75	1295584	11.215	ppbv	100
47) 1,1,2-Trichloroethane	9.47	97	1401001	10.104	ppbv	99
48) Dibromochloromethane	10.30	129	2178377	11.261	ppbv	98
49) Bromoform	13.03	173	1750224	11.305	ppbv	96
50) 4-Methyl-2-Pentanone	8.74	43	2347637	11.597	ppbv	100
51) 2-Hexanone	10.14	43	1128314	12.633	ppbv #	99
52) Tetrachloroethene	11.22	164	1291876	10.283	ppbv	98
53) Toluene	9.81	91	4073600	11.198	ppbv	99
54) 1,2-Dibromoethane	10.61	107	1970436	10.378	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.12	131	1487485	10.616	ppbv #	92
57) Chlorobenzene	12.15	112	2865379	10.203	ppbv	98
58) Ethyl Benzene	12.71	91	5123584	11.426	ppbv	98
59) m/p-Xylene	12.99	91	8480517m	21.703	ppbv	
60) o-Xylene	13.69	91	3890258	10.460	ppbv	97
61) Styrene	13.53	104	2206324	12.030	ppbv	97
62) Isopropylbenzene	14.66	105	5590854	10.760	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	2867006	9.850	ppbv	100
64) n-propylbenzene	15.56	120	1486222	11.085	ppbv	86
65) tert-Butylbenzene	16.74	119	4914581	10.491	ppbv	100
66) Benzyl Chloride	16.99	91	267855	10.463	ppbv	98
67) sec-Butylbenzene	17.29	105	6856345	10.788	ppbv	99
69) p-Isopropyltoluene	17.65	119	5737322	11.049	ppbv	99
70) n-Butylbenzene	18.55	91	5524088	11.244	ppbv	100
71) 2-Chlorotoluene	15.45	91	4056061	10.893	ppbv	98
72) 4-Ethyltoluene	15.84	105	4939536	11.570	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	4386753	11.023	ppbv	100
74) 1,2,4-Trimethylbenzene	16.76	105	4454807	10.628	ppbv	97
75) 1,3-Dichlorobenzene	16.99	146	2746358	10.546	ppbv	99
76) 1,4-Dichlorobenzene	17.13	146	2655731	10.339	ppbv	99
77) 1,2-Dichlorobenzene	17.81	146	2630254	10.649	ppbv	99
78) Hexachloro-1,3-Butadiene	23.37	225	1978068	9.515	ppbv	99
79) Naphthalene	22.19	128	3302188	12.831	ppbv	99
80) Naphthalene, 2-methyl-	24.97	142	906352	15.407	ppbv	93
81) 1,2,4-Trichlorobenzene	21.92	180	1987478	12.028	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

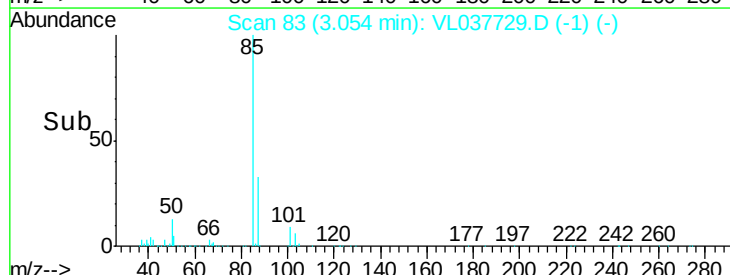
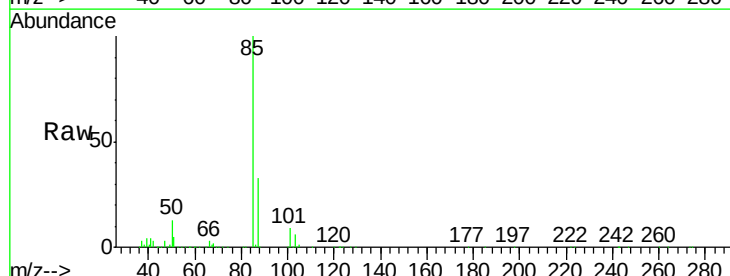
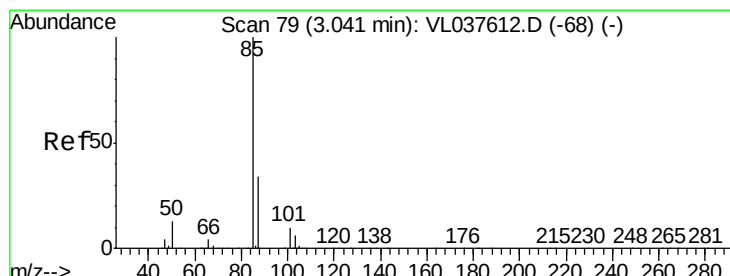
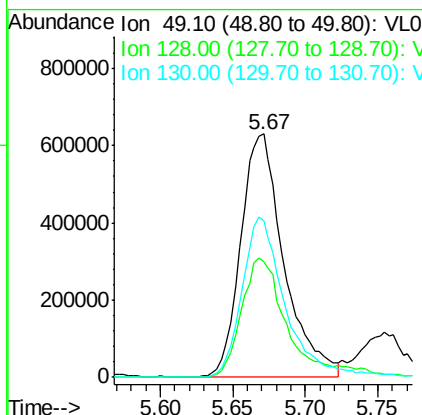
Tot Ion: 49 Resp: 1307694
Ion Ratio Lower Upper
49 100
128 53.5 27.9 83.6
130 67.1 33.9 101.7

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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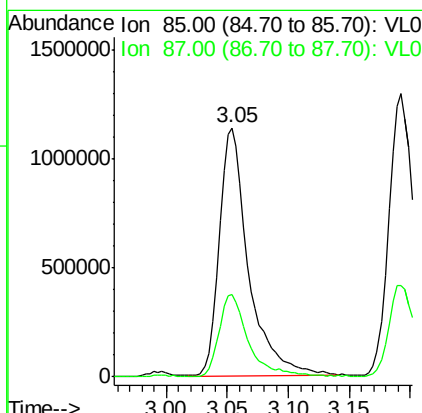
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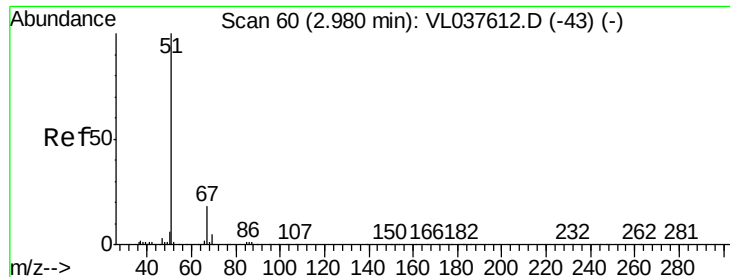
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#2
Dichlorodifluoromethane
Concen: 8.151 ppbv
RT: 3.05 min Scan# 83
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 85 Resp: 1928833
Ion Ratio Lower Upper
85 100
87 33.2 26.8 40.2





#3

Chlorodifluoromethane

Concen: 10.129 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tot Ion: 51 Resp: 2498413

Ion Ratio Lower Upper

51 100

67 17.1 14.0 21.0

Instrument :

MSVOA_L

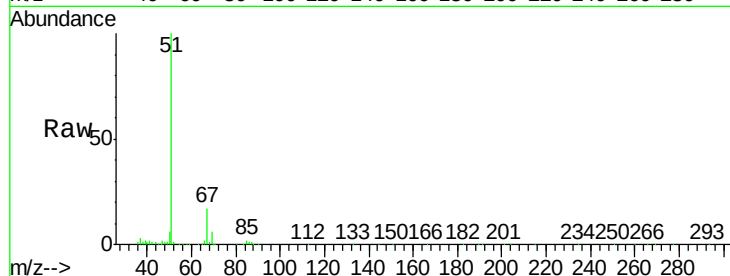
ClientSampleId :

VSTDCCC010

Manual Integrations
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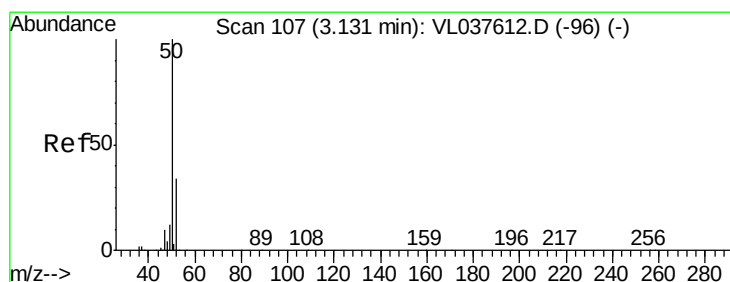
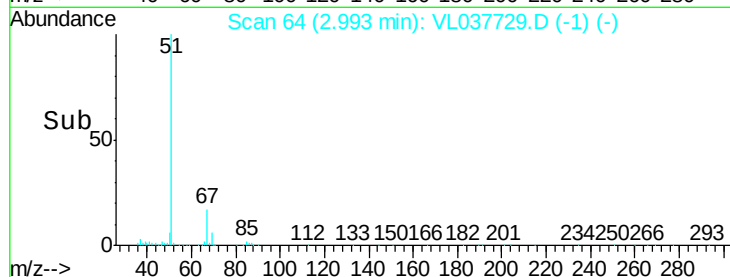
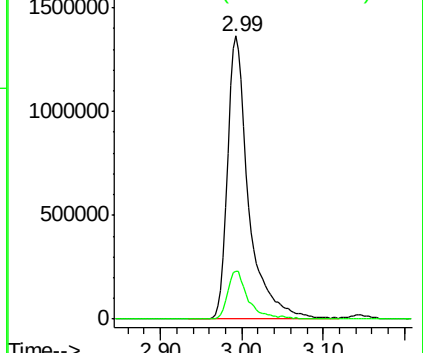
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.520 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL037729.D

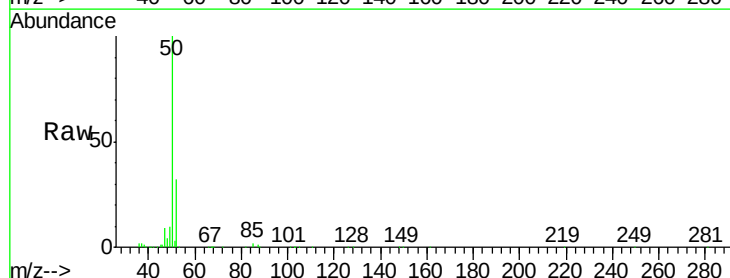
Acq: 29 Sep 2021 12:47

Tgt Ion: 50 Resp: 958699

Ion Ratio Lower Upper

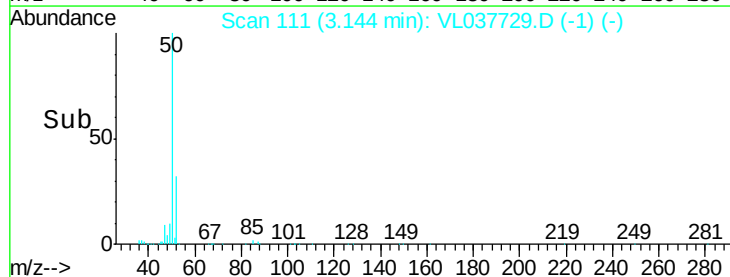
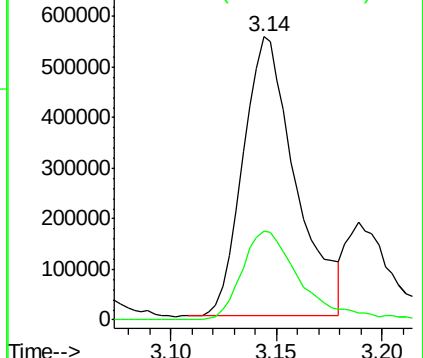
50 100

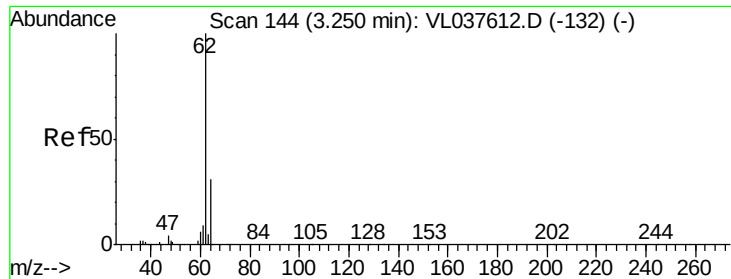
52 32.0 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.707 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 916537

Ion Ratio Lower Upper

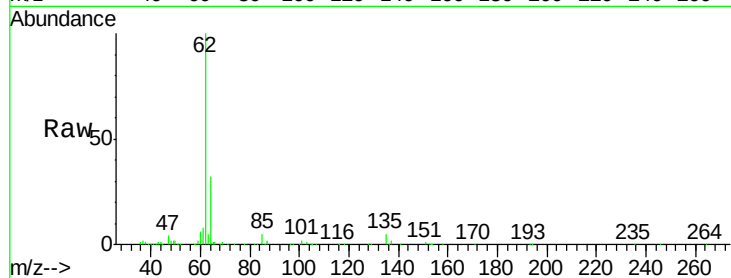
62 100

64 32.2 24.9 37.3

Manual Integrations
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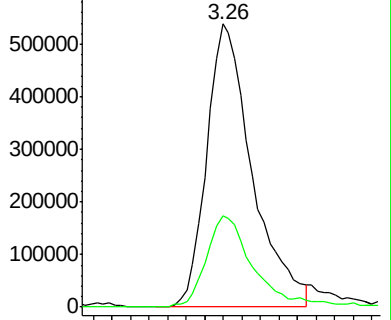
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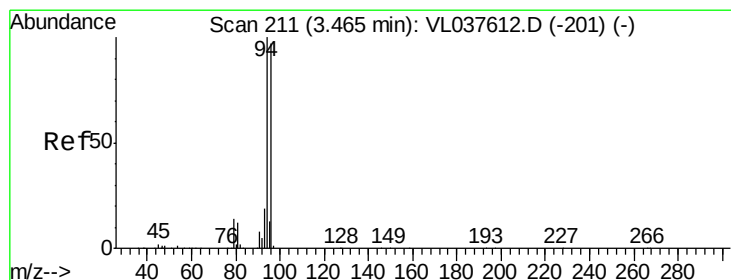
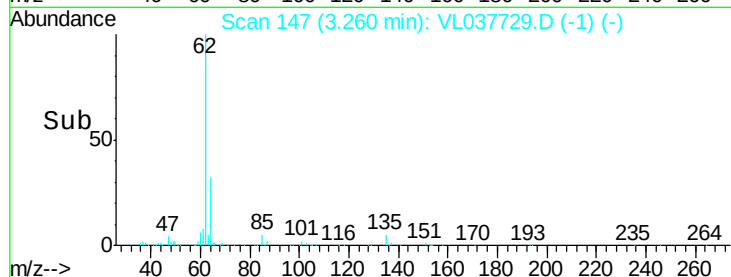


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.808 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.01 min

Lab File: VL037729.D

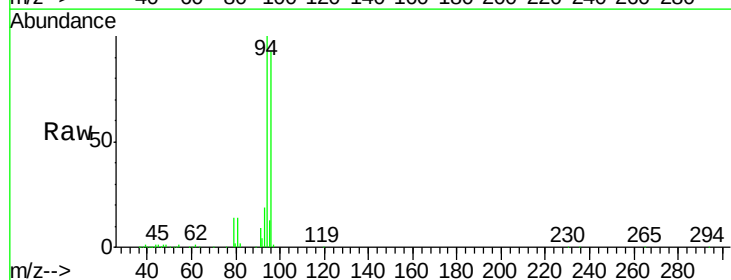
Acq: 29 Sep 2021 12:47

Tgt Ion: 94 Resp: 487961

Ion Ratio Lower Upper

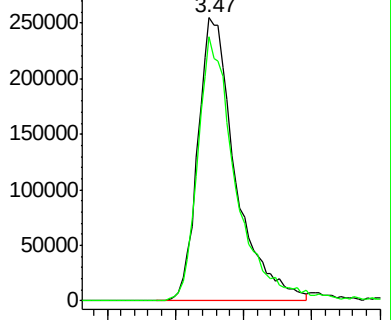
94 100

96 93.4 77.3 115.9

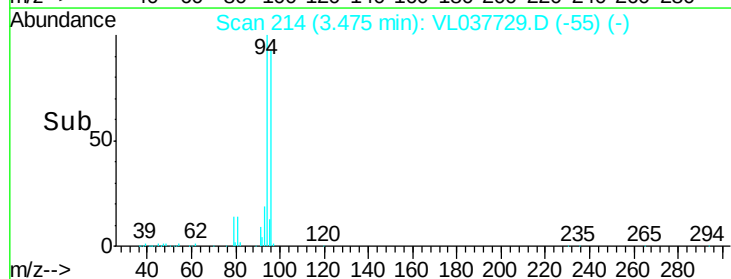


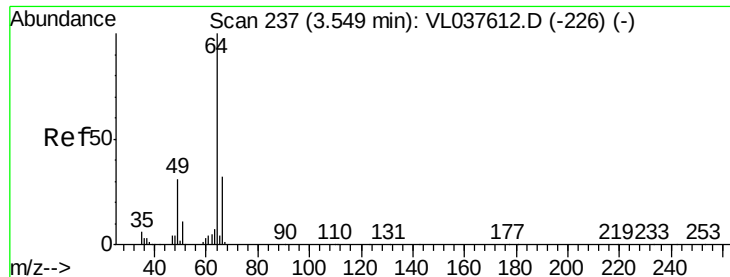
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 10.099 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 323074

Ion Ratio Lower Upper

64 100

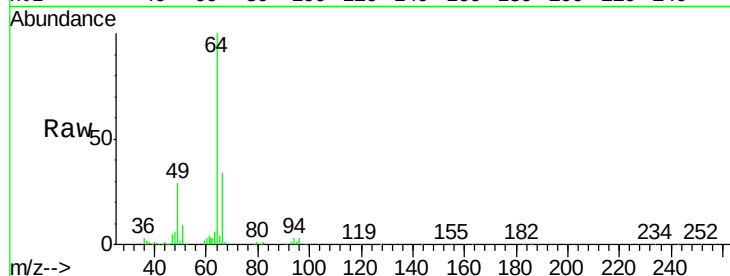
66 34.2 25.3 37.9

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

200000

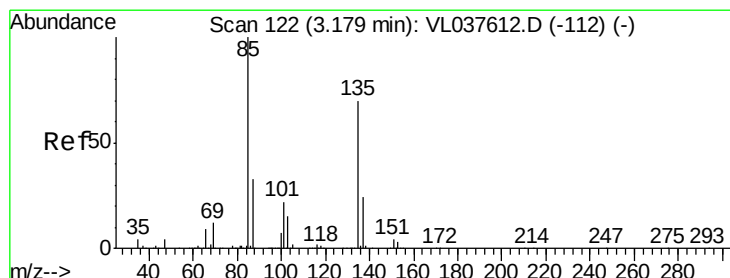
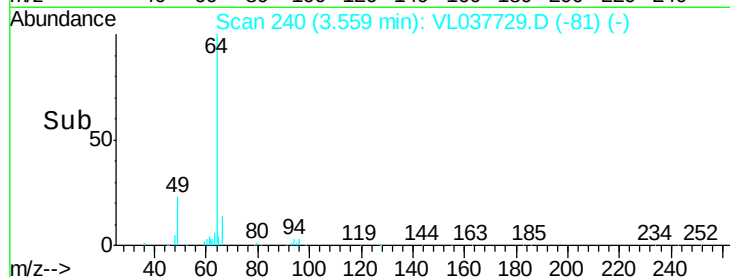
150000

100000

50000

0

Time--> 3.50 3.55 3.60



#8

Dichlorotetrafluoroethane

Concen: 10.530 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.01 min

Lab File: VL037729.D

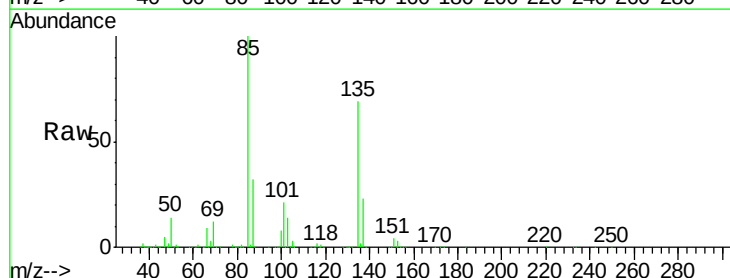
Acq: 29 Sep 2021 12:47

Tgt Ion: 85 Resp: 2149549

Ion Ratio Lower Upper

85 100

135 73.5 59.3 88.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

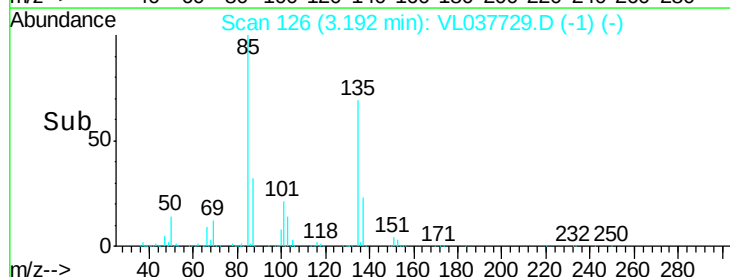
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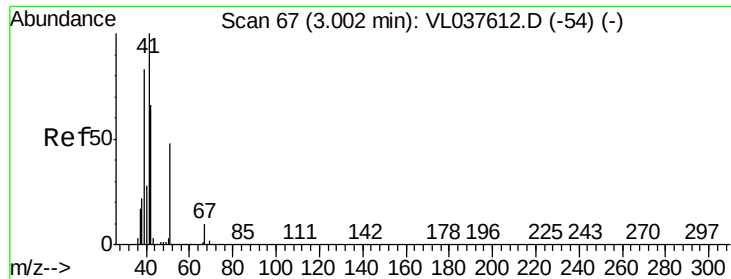
1000000

500000

0

Time--> 3.15 3.20 3.25 3.30





#9
Propene
Concen: 10.922 ppbv
RT: 3.02 min Scan# 71
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

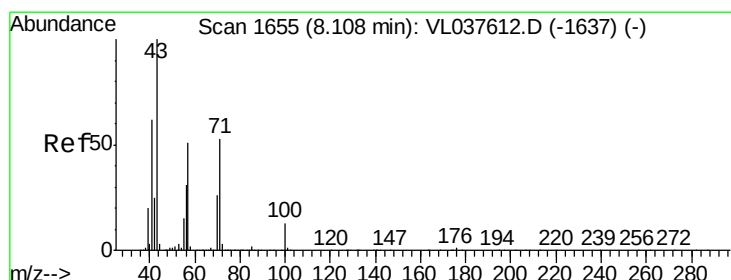
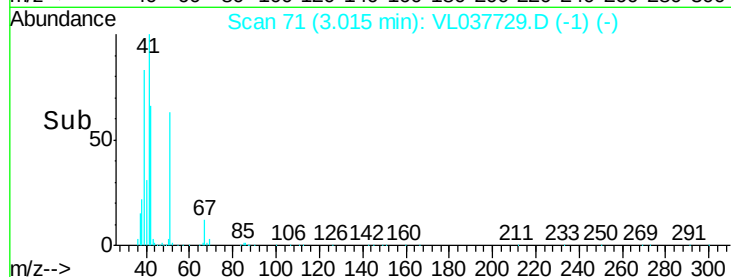
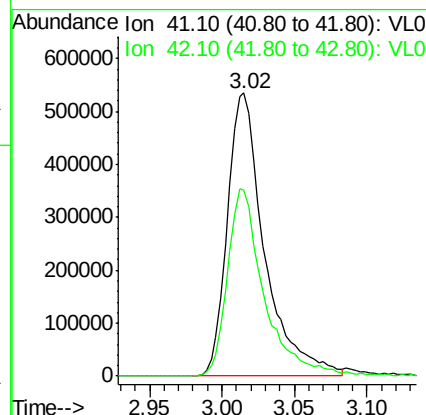
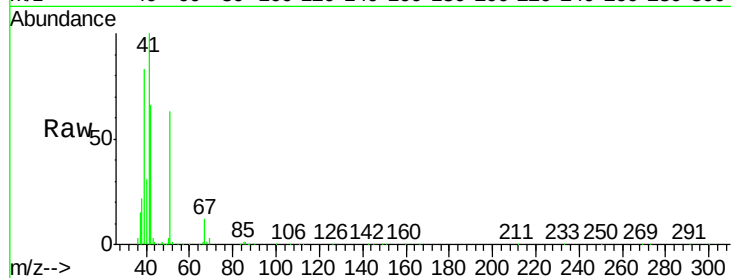
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 41 Resp: 950282
Ion Ratio Lower Upper
41 100
42 66.0 57.2 85.8

Manual Integrations
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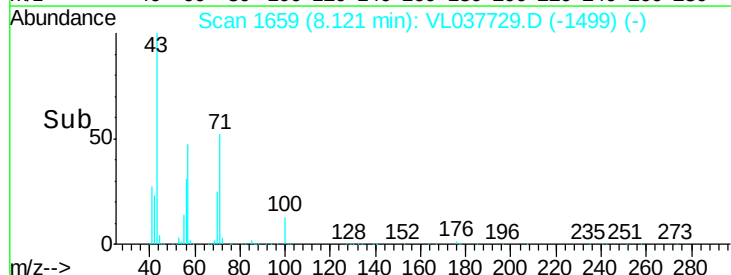
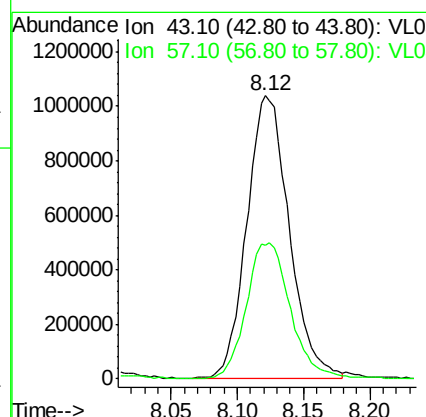
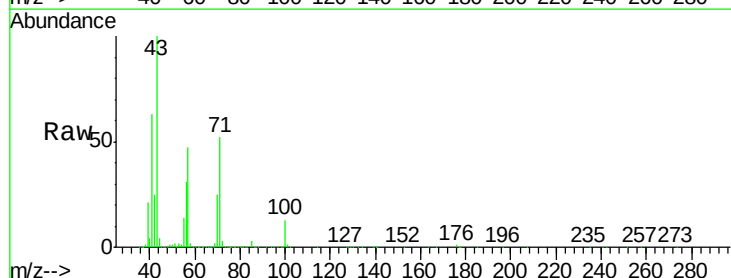
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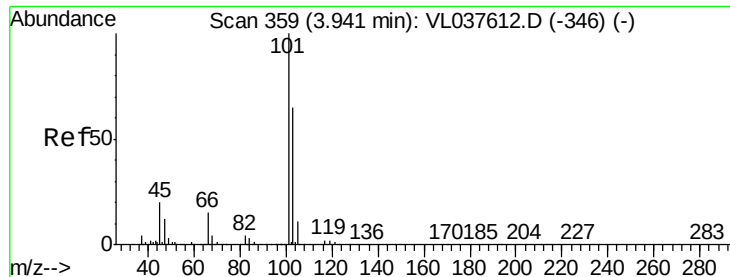
10/1/2021 11:06:24 AM



#10
Heptane
Concen: 11.286 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 43 Resp: 2291303
Ion Ratio Lower Upper
43 100
57 50.0 40.1 60.1





#11
 Trichlorofluoromethane
 Concen: 10.287 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.01 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

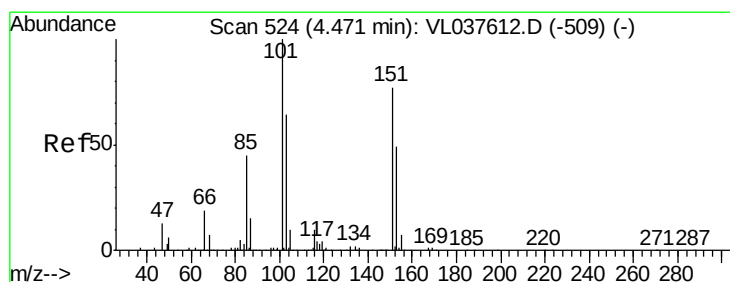
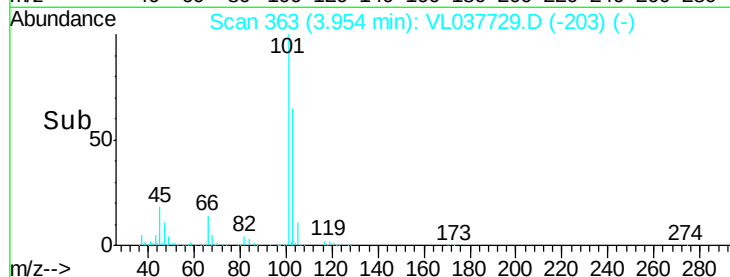
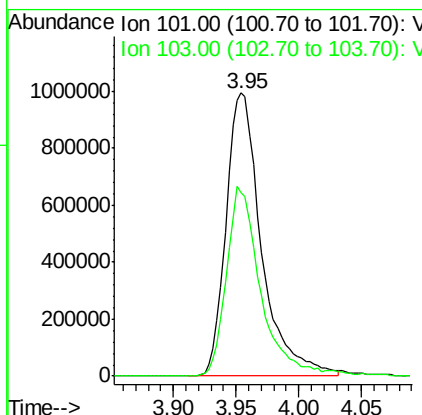
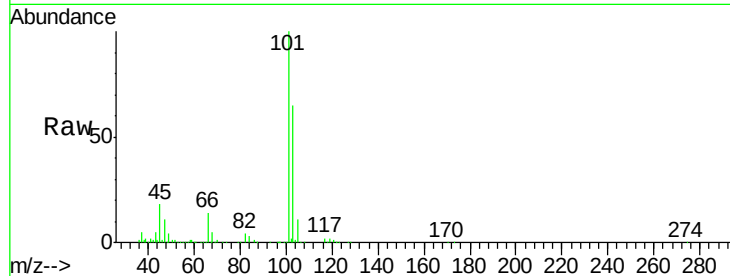
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1954320
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.9 77.9

Manual Integrations
 APPROVED

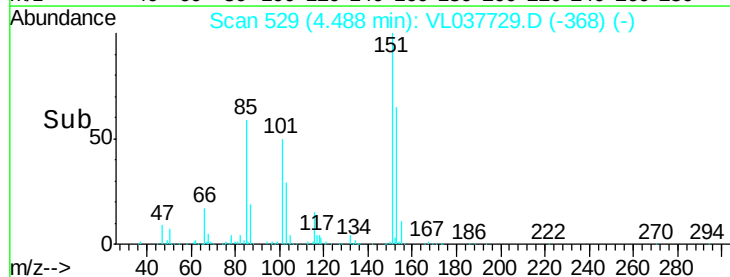
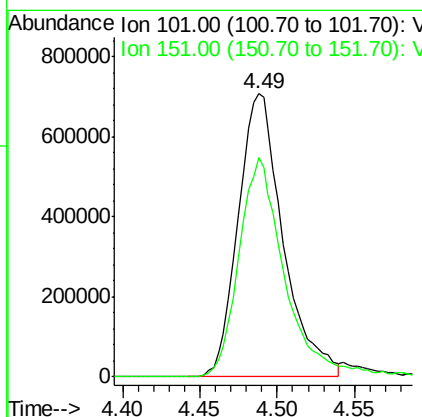
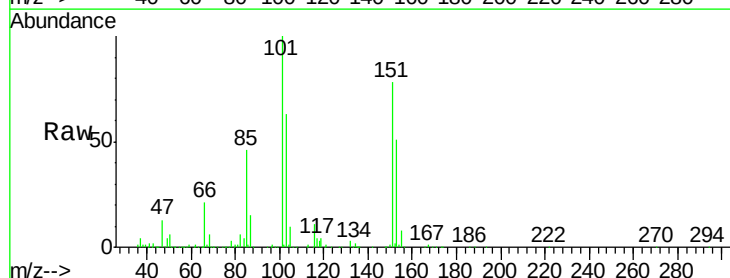
MMDadoda

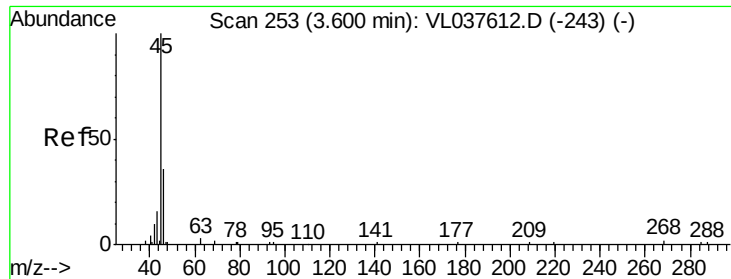
10/1/2021 11:06:24 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.214 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion:101 Resp: 1432269
 Ion Ratio Lower Upper
 101 100
 151 79.6 63.5 95.3





#13
Ethanol
Concen: 9.987 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

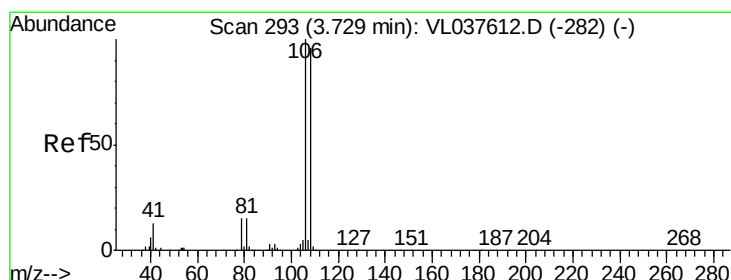
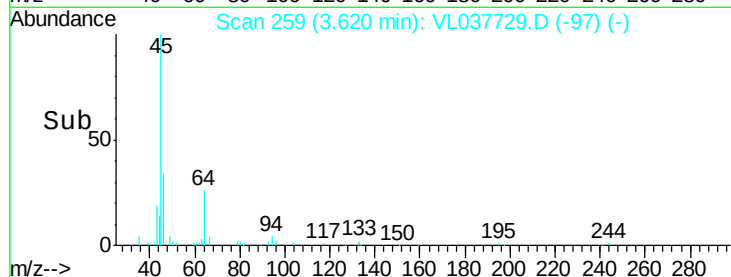
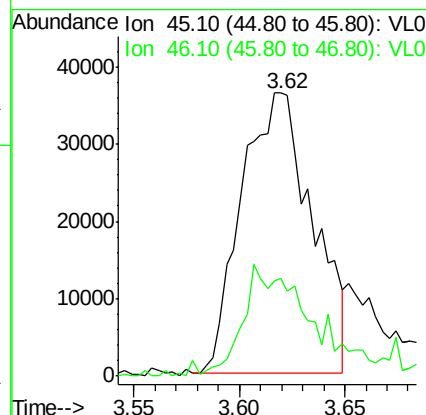
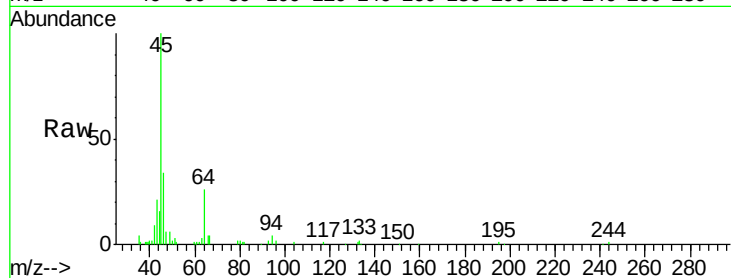
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	40.8	17.2	68.8

Manual Integrations
APPROVED

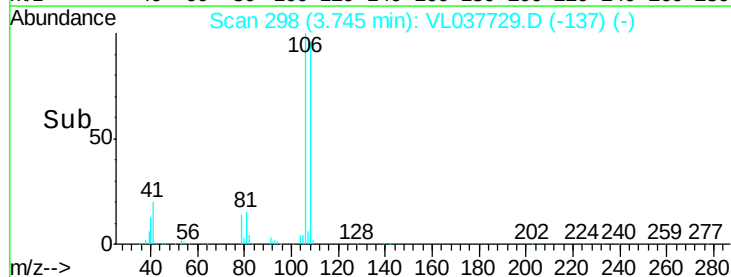
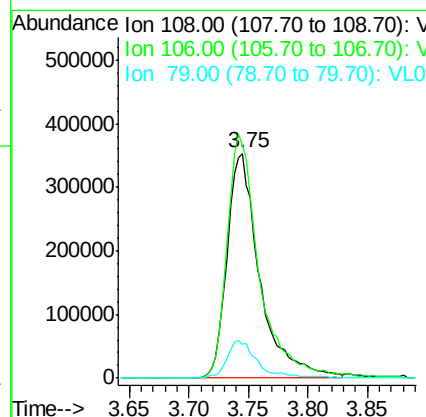
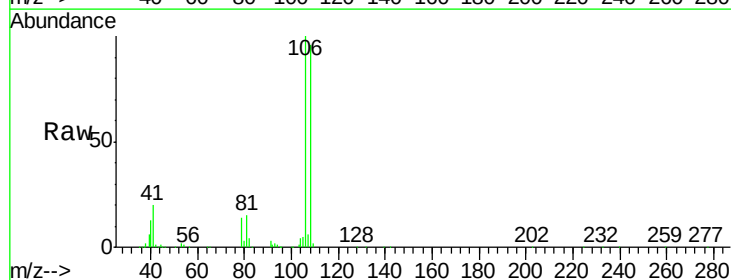
MMDadoda

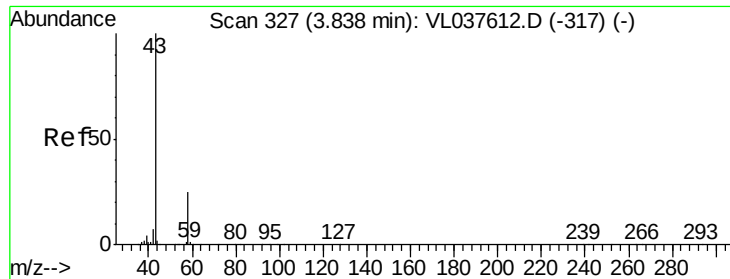
10/1/2021 11:06:24 AM



#14
Bromoethene
Concen: 10.533 ppbv
RT: 3.75 min Scan# 298
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.4	88.2	132.4
79	16.0	12.8	19.2





#15

Acetone

Concen: 8.097 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1100174

Ion Ratio Lower Upper

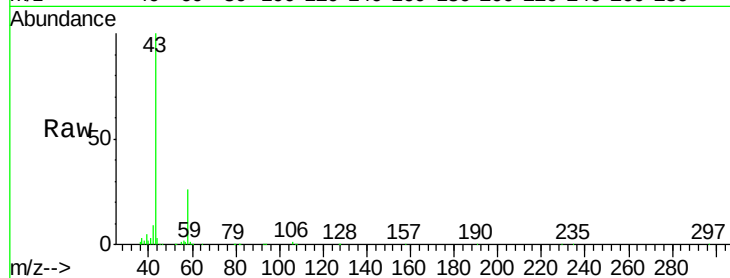
43 100

58 29.7 24.9 37.3

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

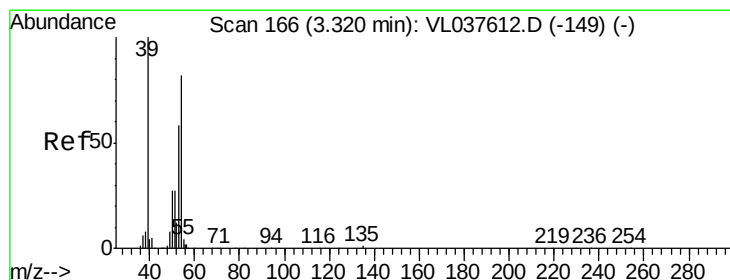
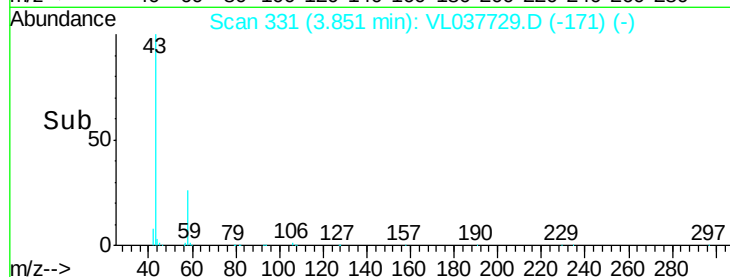
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.883 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.01 min

Lab File: VL037729.D

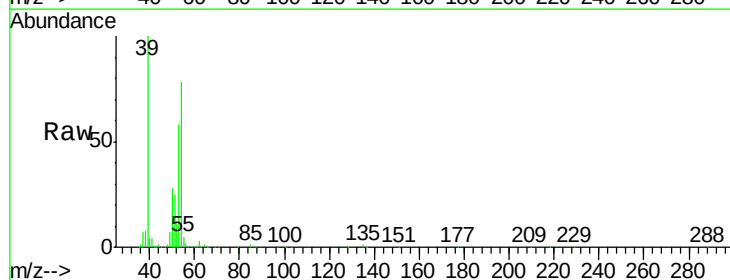
Acq: 29 Sep 2021 12:47

Tgt Ion: 39 Resp: 923976

Ion Ratio Lower Upper

39 100

54 77.7 62.6 93.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

500000

400000

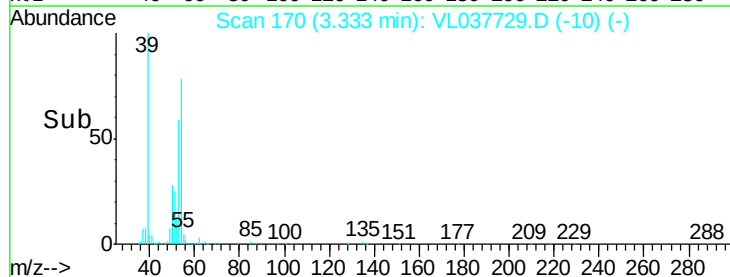
300000

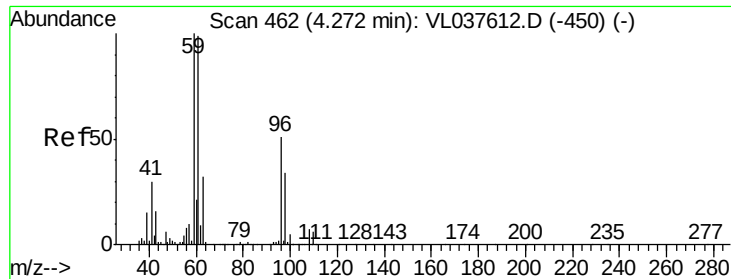
200000

100000

0

Time-->





#17

tert-Butyl alcohol
Concen: 11.710 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

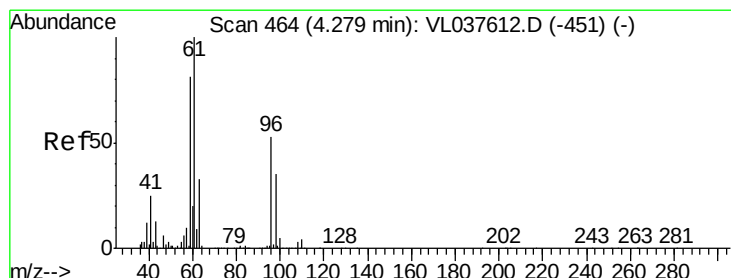
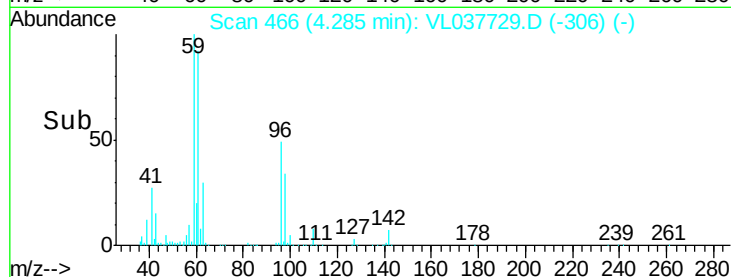
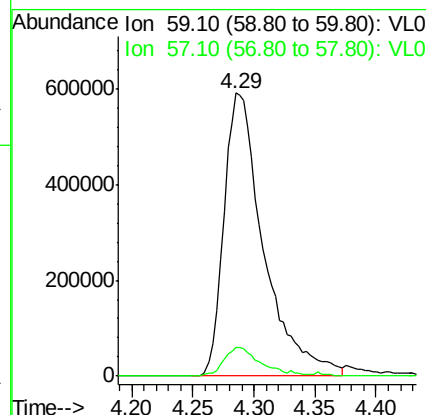
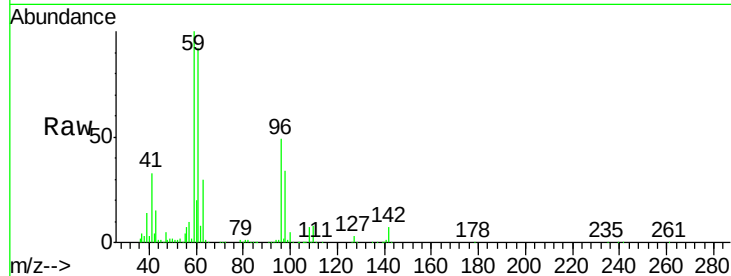
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1349180
Ion Ratio Lower Upper
59 100
57 9.5 8.4 12.6

Manual Integrations
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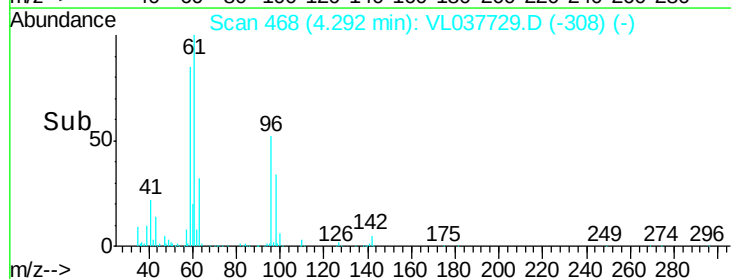
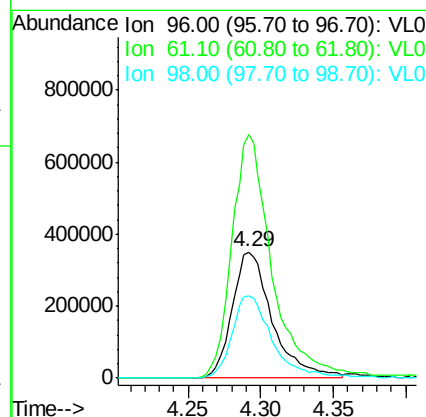
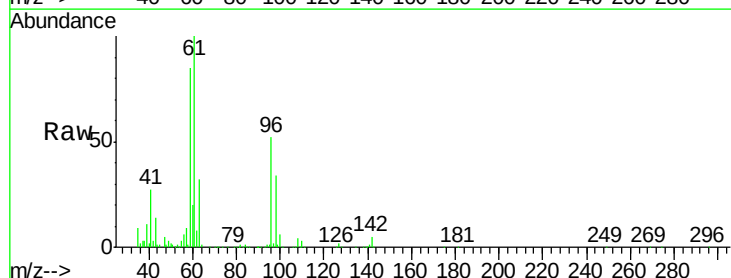
10/1/2021 11:06:24 AM

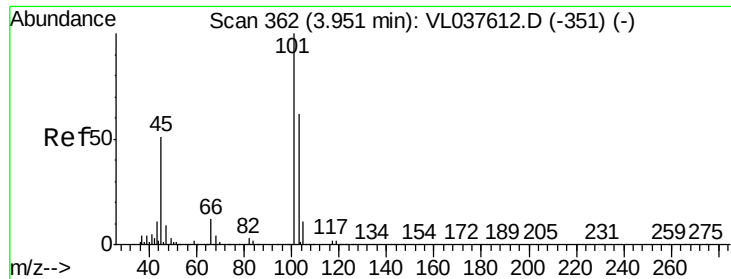


#18

1,1-Dichloroethene
Concen: 10.314 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 96 Resp: 673781
Ion Ratio Lower Upper
96 100
61 193.0 150.4 225.6
98 64.9 52.1 78.1





#19

Isopropyl Alcohol

Concen: 10.648 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tot Ion	Ratio	Lower	Upper
45	100		
58	2.7	2.9	4.3#

Instrument :

MSVOA_L

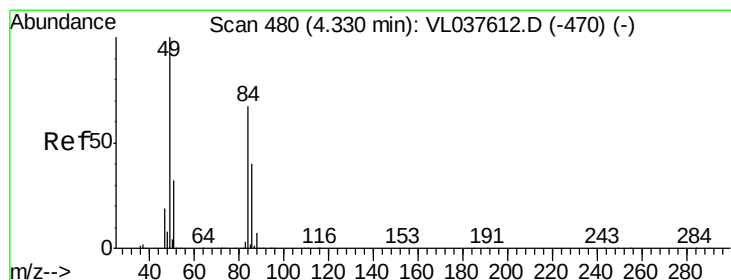
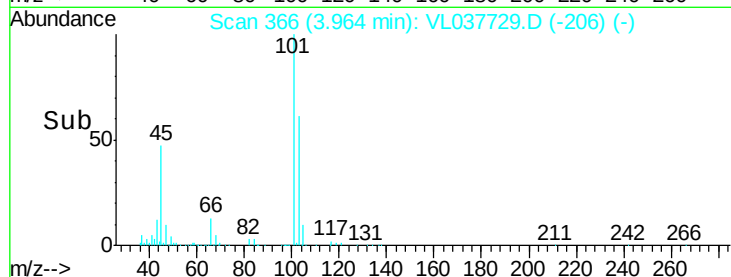
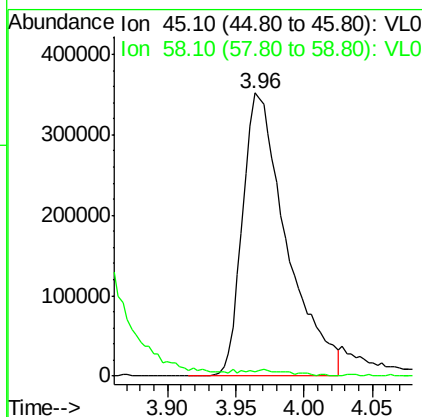
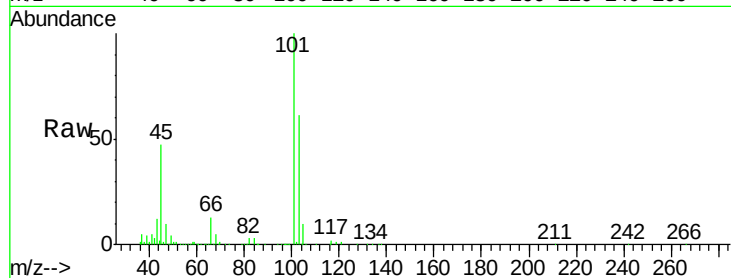
ClientSampleId :

VSTDCCC010

Manual Integrations
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#20

Methylene Chloride

Concen: 9.092 ppbv

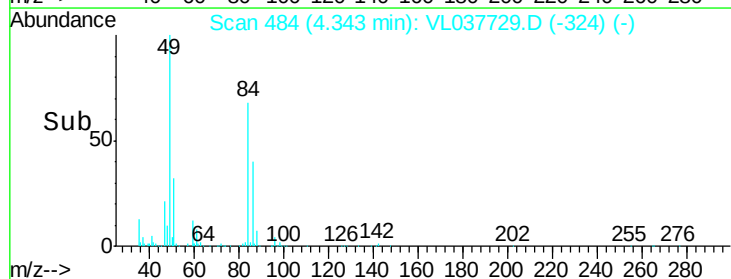
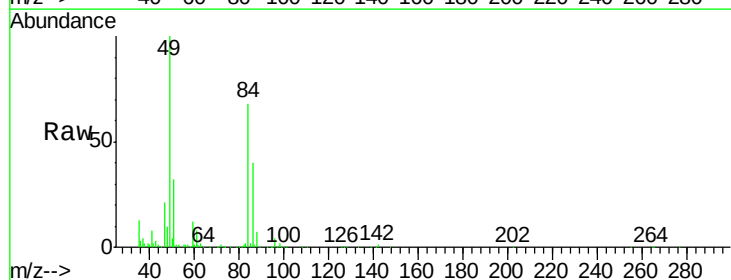
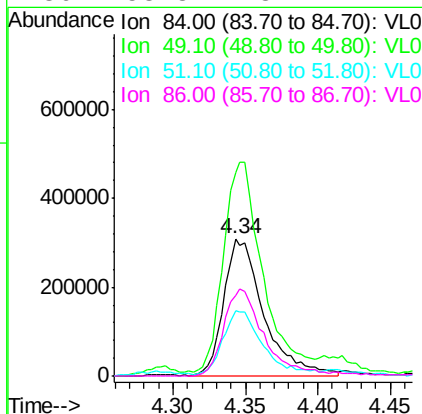
RT: 4.34 min Scan# 484

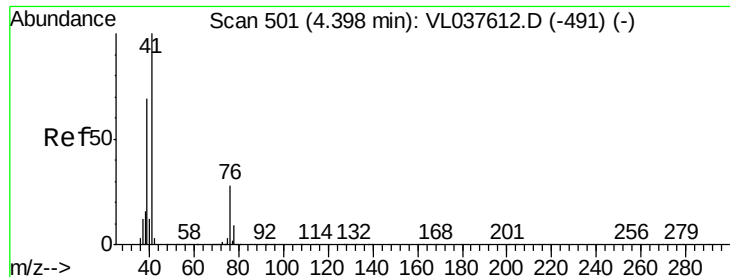
Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.8	120.0	180.0
51	46.3	38.0	57.0
86	58.8	48.2	72.2





#21
 Allvl Chloride
 Concen: 10.751 ppbv
 RT: 4.42 min Scan# 507
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

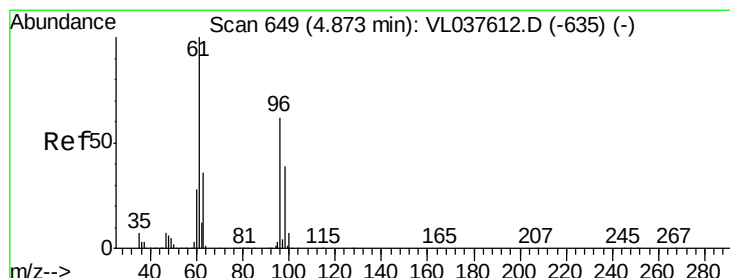
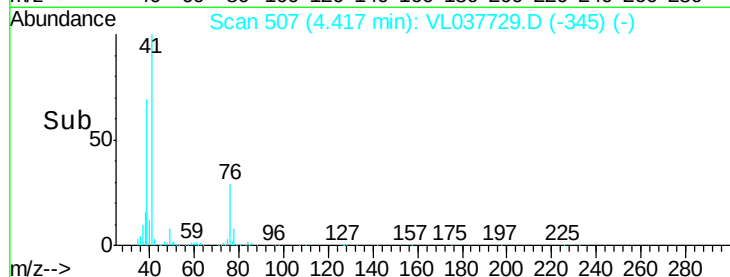
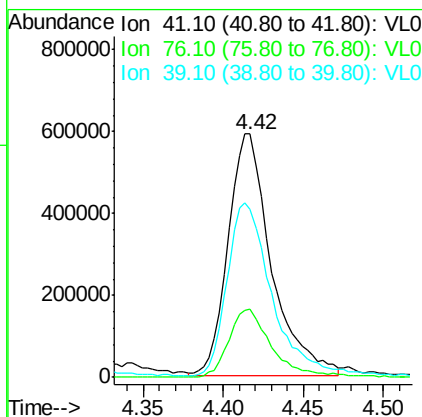
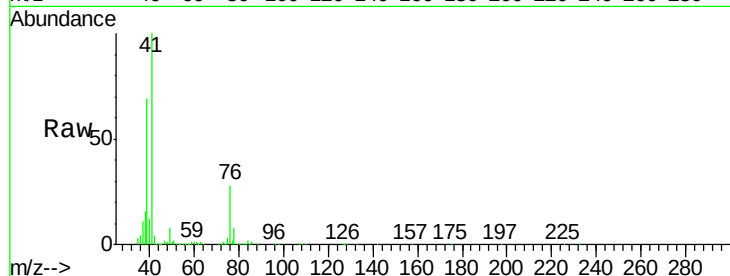
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	41	Resp:	1091271
Ion	Ratio	Lower	Upper
41	100		
76	28.3	23.1	34.7
39	74.9	61.0	91.6

Manual Integrations
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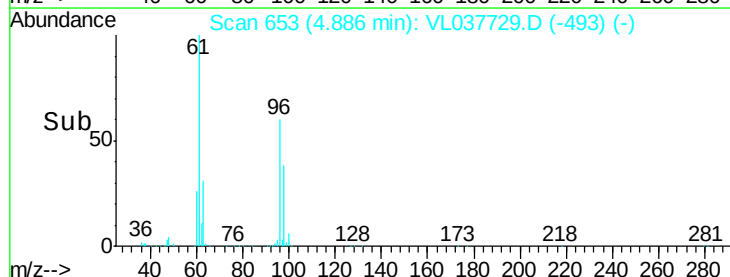
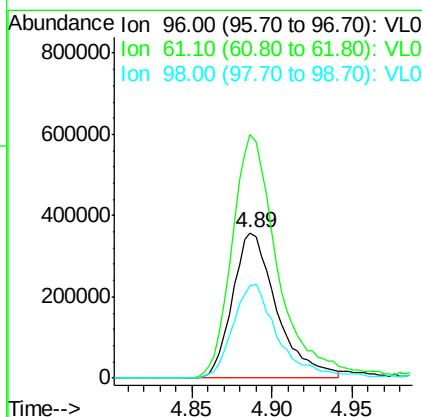
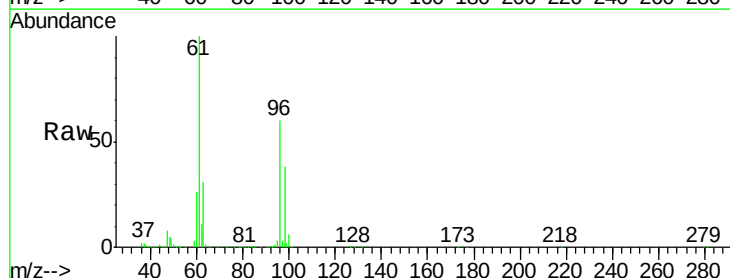
MMDadoda

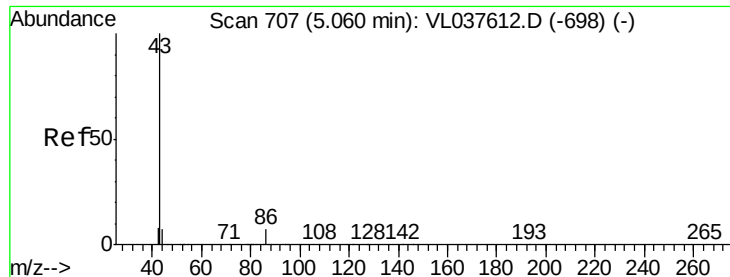
10/1/2021 11:06:24 AM



#22
 trans-1,2-Dichloroethene
 Concen: 10.277 ppbv
 RT: 4.89 min Scan# 653
 Delta R.T. 0.01 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion:	96	Resp:	675438
Ion	Ratio	Lower	Upper
96	100		
61	167.2	129.2	193.8
98	63.7	50.4	75.6





#23

Vinyl Acetate

Concen: 10.514 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tot Ion: 43 Resp: 1976698

Ion Ratio Lower Upper

43 100

86 6.2 5.0 7.6

42 10.1 7.5 11.3

44 5.2 4.7 7.1

Instrument :

MSVOA_L

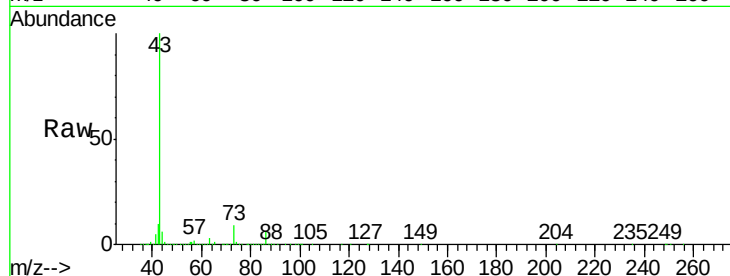
ClientSampleId :

VSTDCCC010

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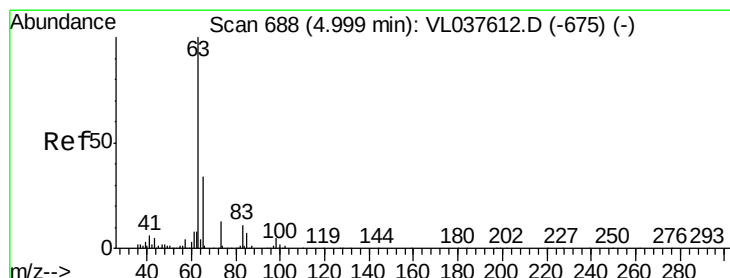
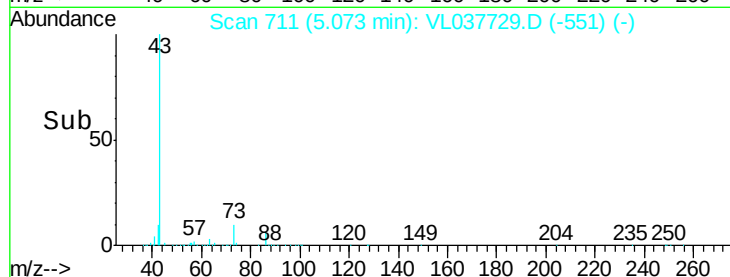
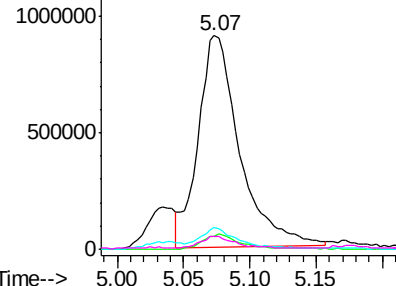


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.257 ppbv

RT: 5.01 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

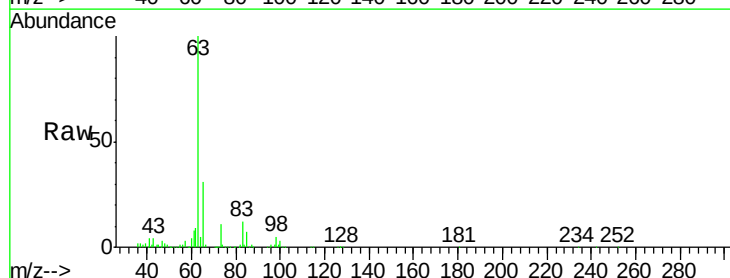
Tgt Ion: 63 Resp: 1381460

Ion Ratio Lower Upper

63 100

98 4.1 2.4 7.2

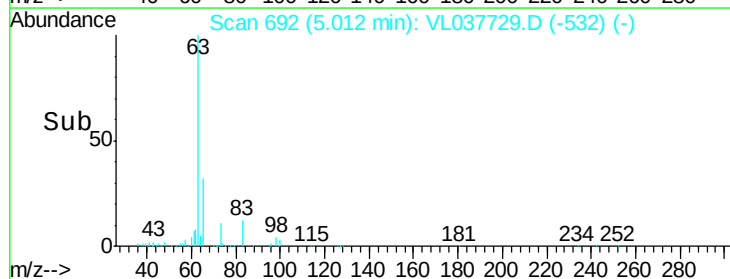
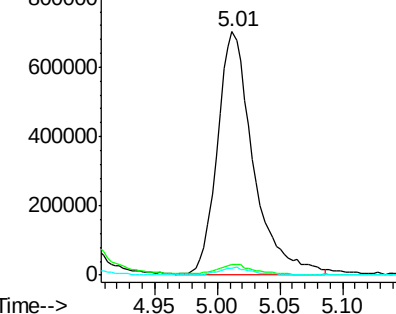
100 2.5 1.1 3.5

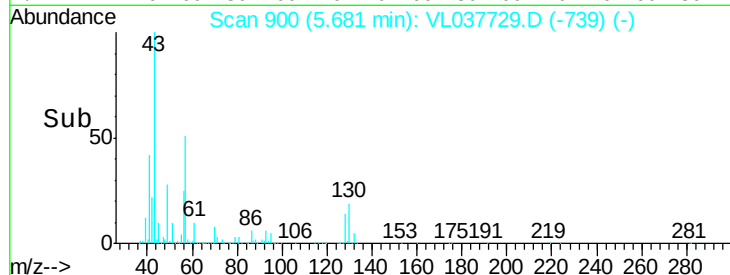
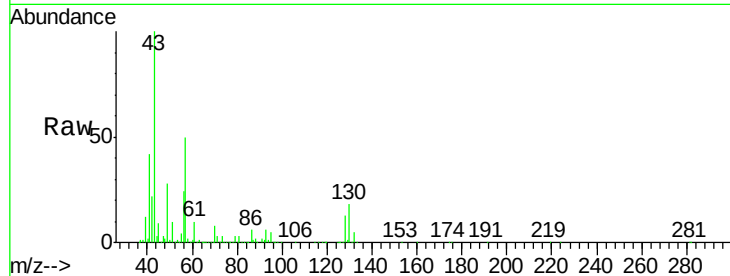
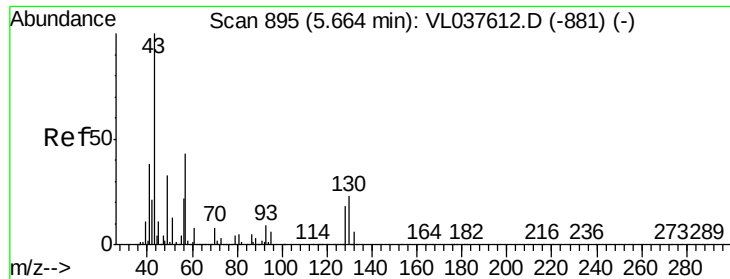


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 11.022 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

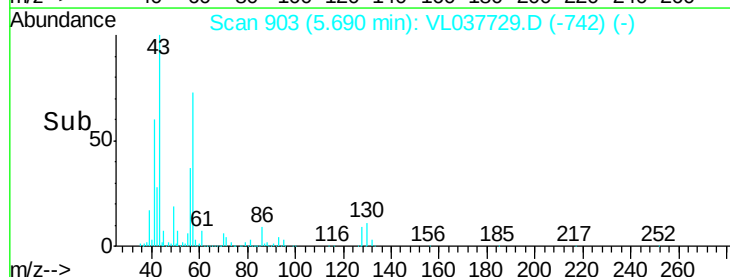
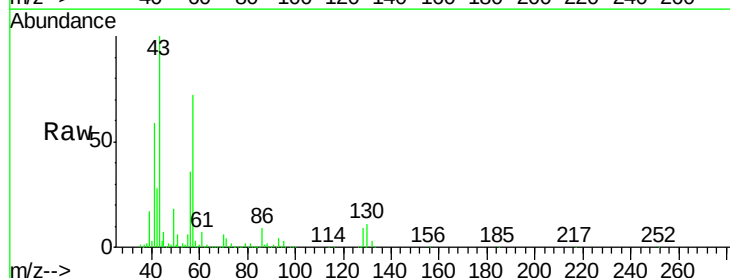
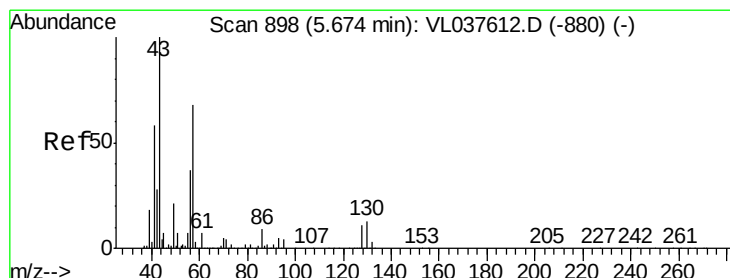
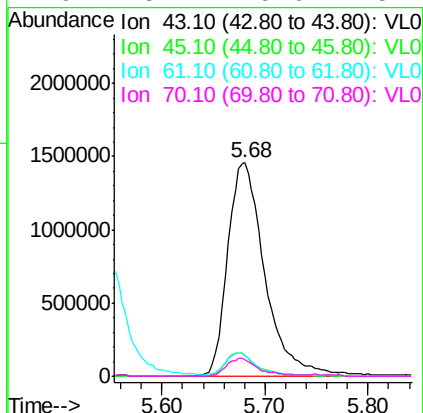
Tot Ion:	43	Resp:	3626855
Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.0	12.0
61	10.1	7.5	11.3
70	8.1	5.6	8.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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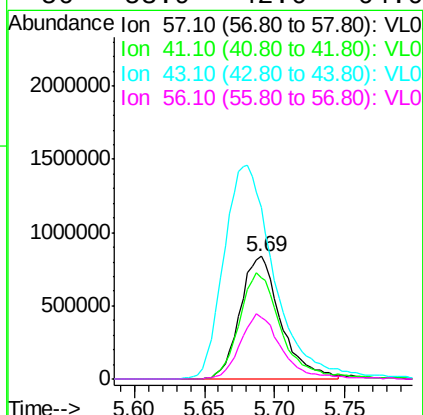
MMDadoda

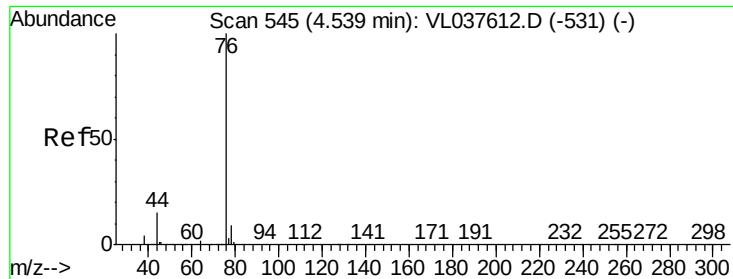
10/1/2021 11:06:24 AM



#26
Hexane
Concen: 10.880 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion:	57	Resp:	1700676
Ion	Ratio	Lower	Upper
57	100		
41	90.1	70.9	106.3
43	215.5	170.4	255.6
56	53.9	42.6	64.0





#27

Carbon Disulfide

Concen: 11.271 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tot Ion: 76 Resp: 1611823

Ion Ratio Lower Upper

76 100

44 18.0 14.2 21.2

78 10.0 7.4 11.0

Instrument :

MSVOA_L

ClientSampleId :

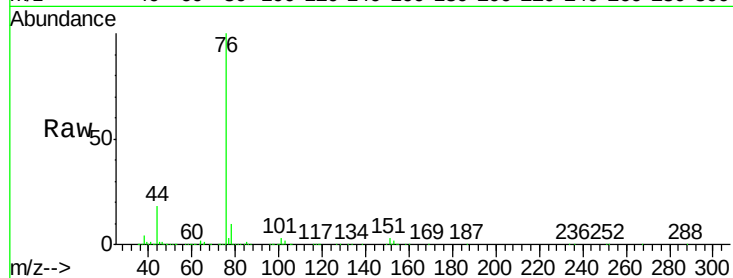
VSTDCCC010

Manual Integrations

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MMDadoda

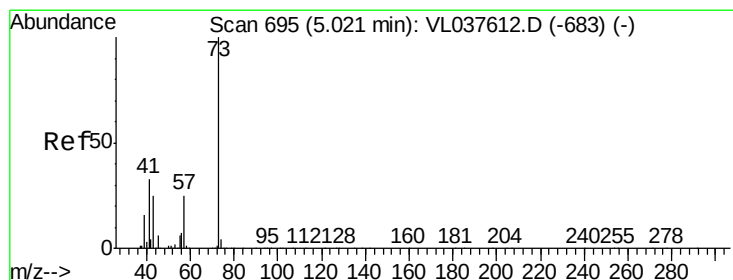
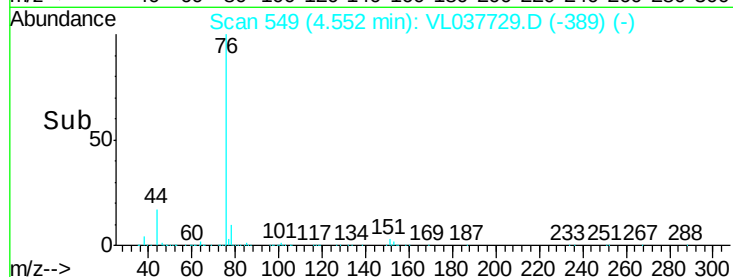
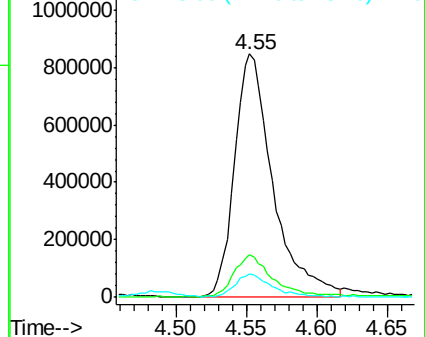
10/1/2021 11:06:24 AM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.580 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.01 min

Lab File: VL037729.D

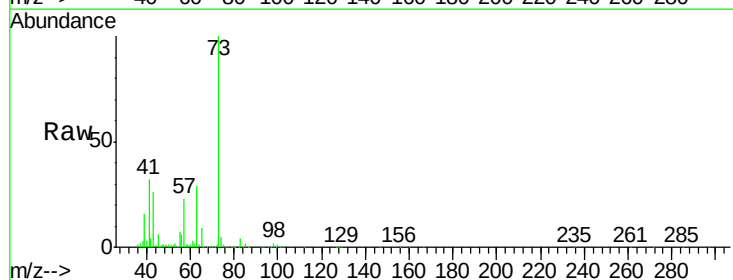
Acq: 29 Sep 2021 12:47

Tgt Ion: 73 Resp: 1456705

Ion Ratio Lower Upper

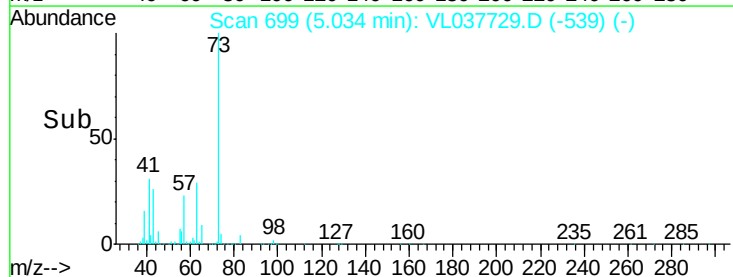
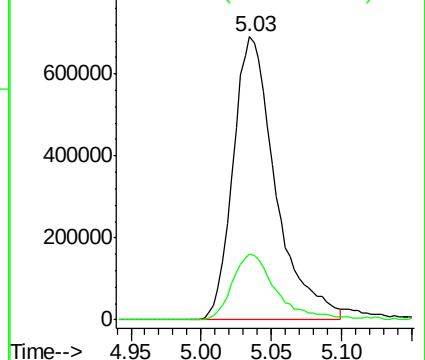
73 100

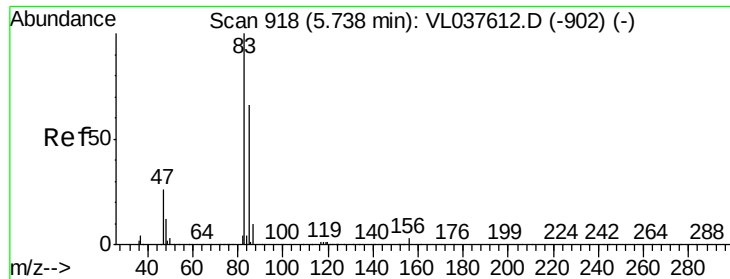
57 24.6 20.1 30.1



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29
Chloroform
Concen: 10.147 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

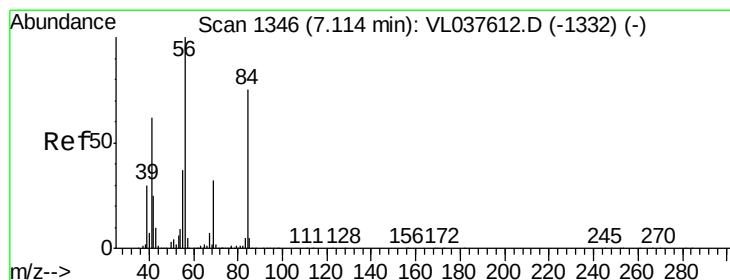
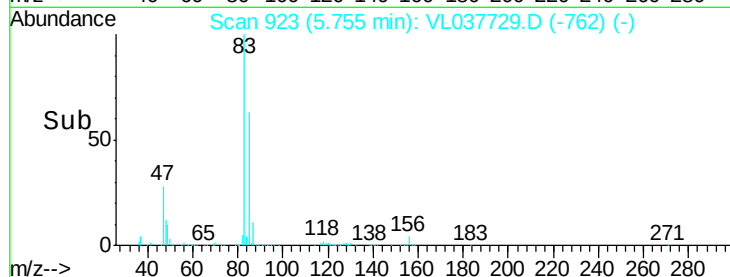
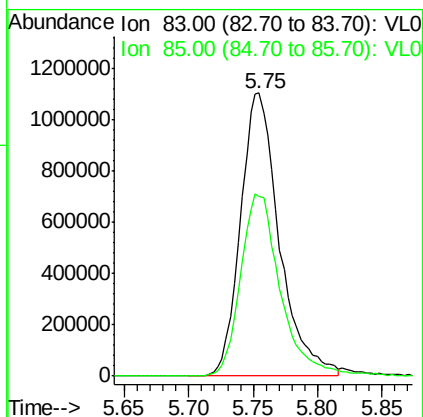
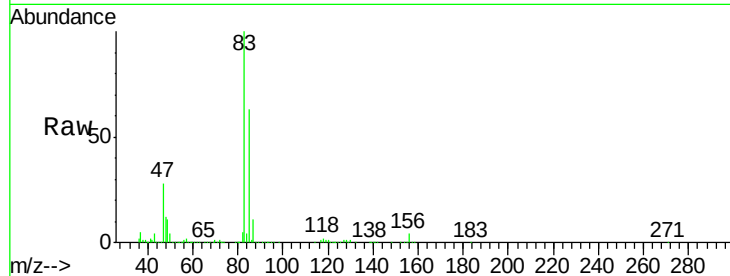
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2316121
Ion Ratio Lower Upper
83 100
85 63.2 52.6 79.0

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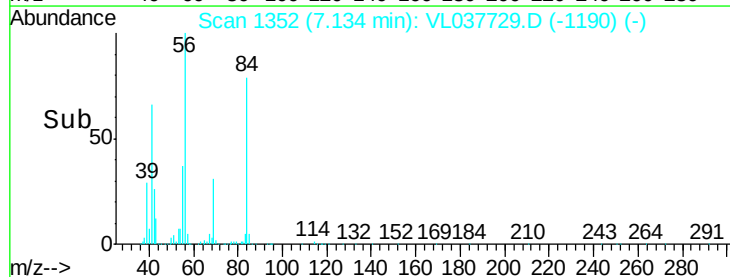
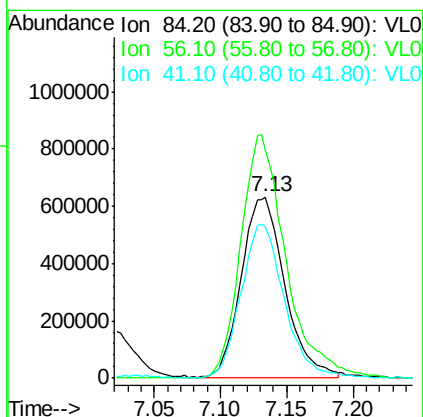
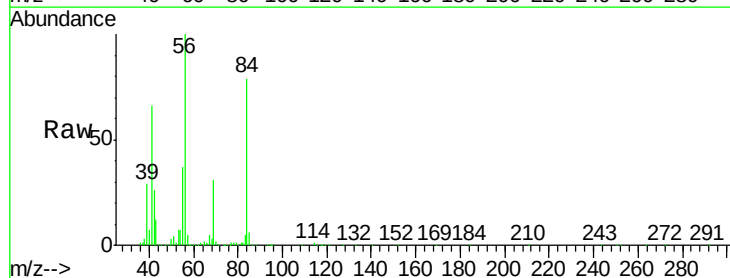
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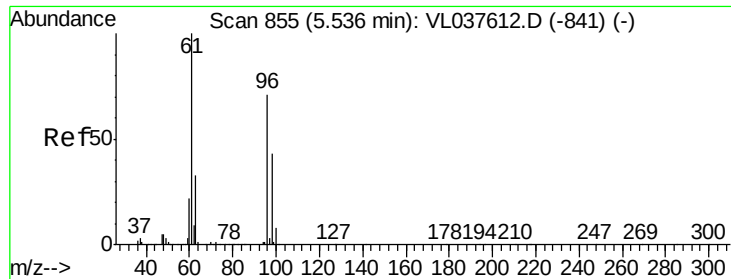
10/1/2021 11:06:24 AM



#30
Cyclohexane
Concen: 10.688 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 84 Resp: 1428898
Ion Ratio Lower Upper
84 100
56 141.5 113.6 170.4
41 86.5 67.9 101.9





#31

cis-1,2-Dichloroethene
Concen: 11.150 ppbv
RT: 5.55 min Scan# 859
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

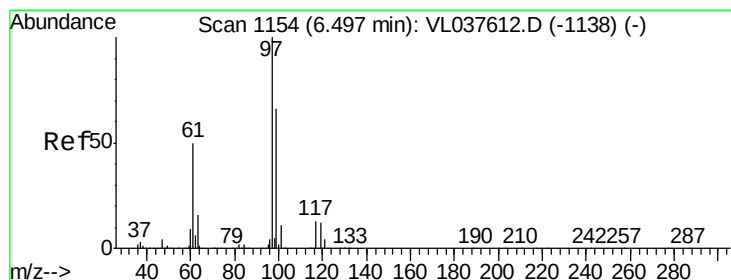
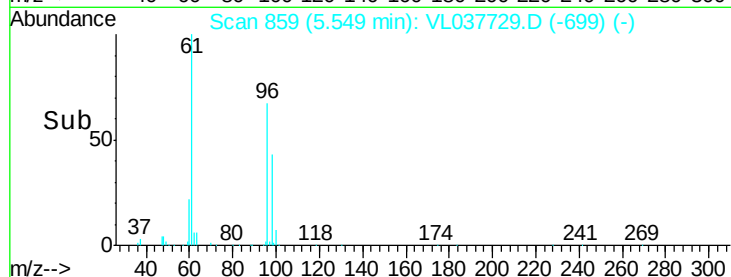
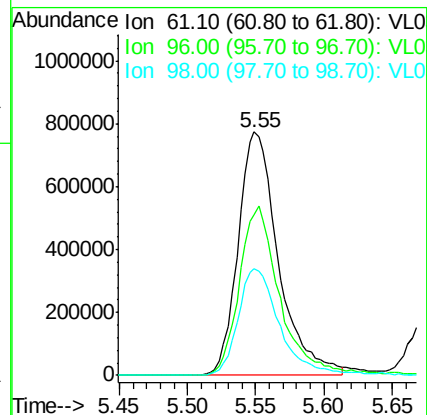
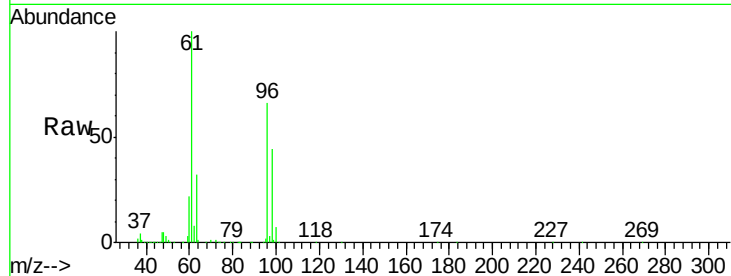
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.9	56.7	85.1
98	43.8	34.6	52.0

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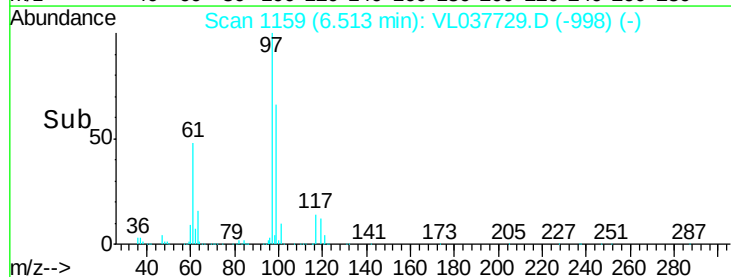
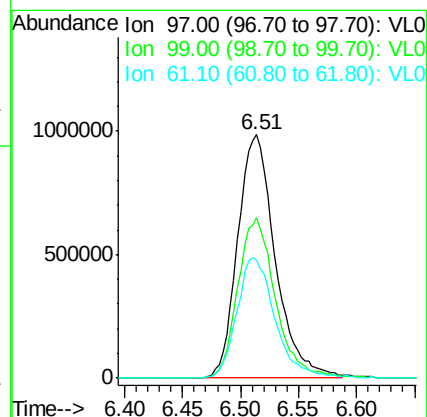
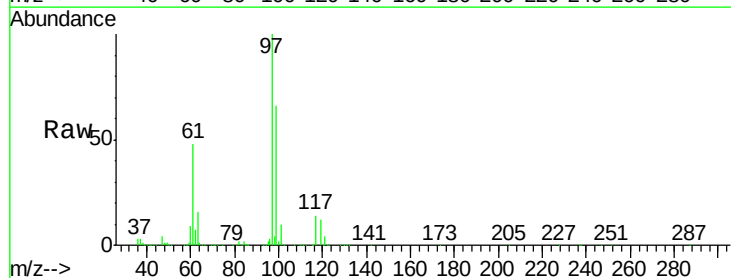
10/1/2021 11:06:24 AM

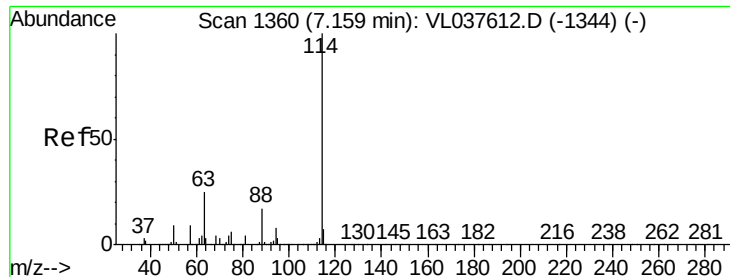


#32

1,1,1-Trichloroethane
Concen: 10.469 ppbv
RT: 6.51 min Scan# 1159
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.3	78.5
61	50.0	39.5	59.3





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

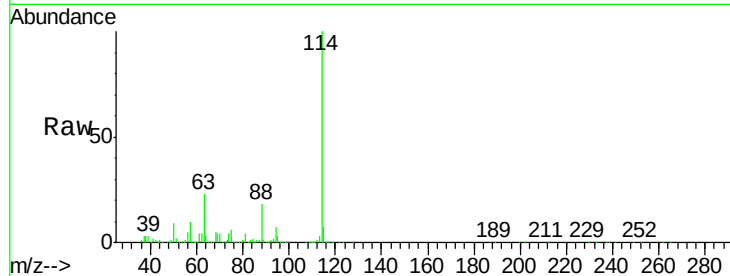
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	114	Resp:	3924644
Ion	Ratio	Lower	Upper
114	100		
63	23.5	19.6	29.4
88	17.8	14.2	21.4

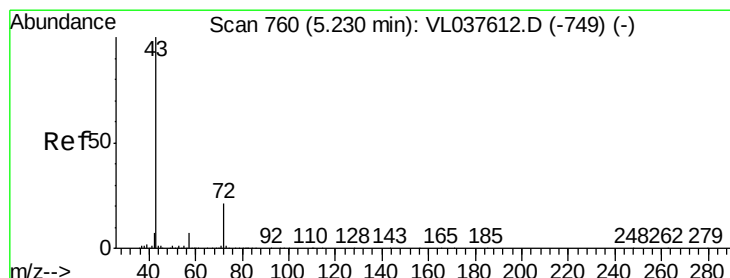
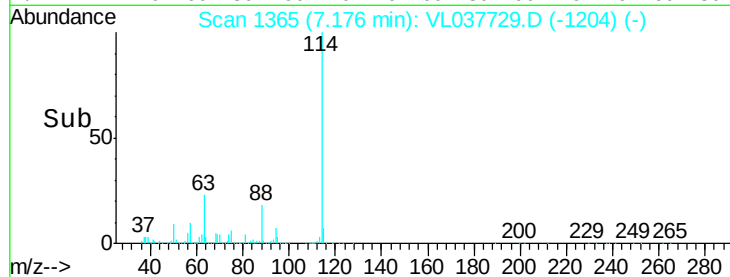
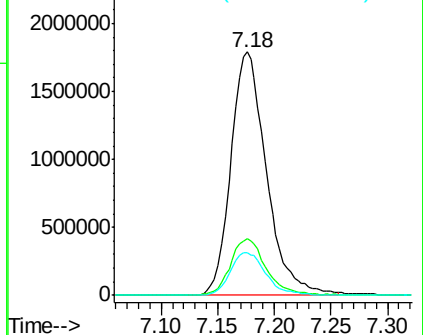
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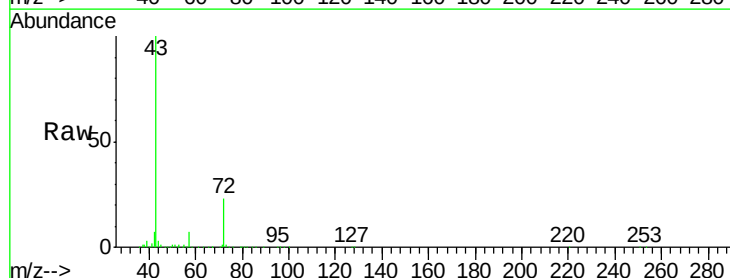


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

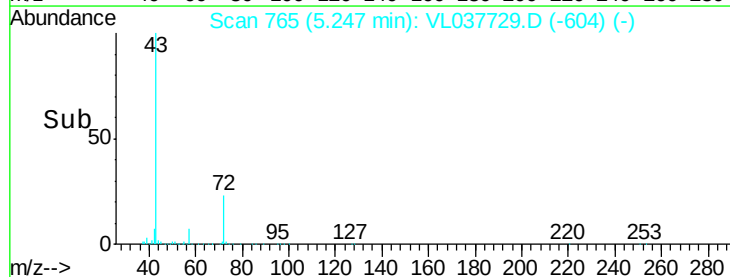
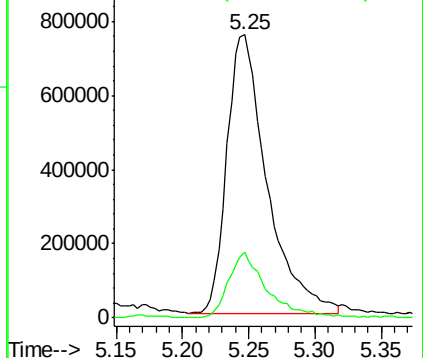


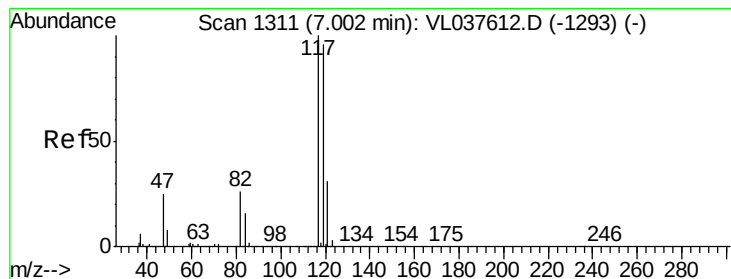
#34
 2-Butanone
 Concen: 9.910 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion:	43	Resp:	1580514
Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.4	27.6



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





#35

Carbon Tetrachloride

Concen: 10.338 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 117 Resp: 2295126

Ion Ratio Lower Upper

117 100

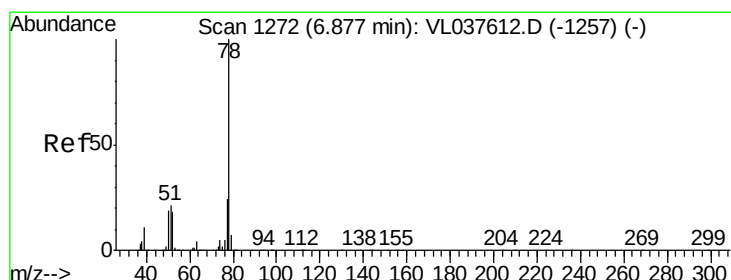
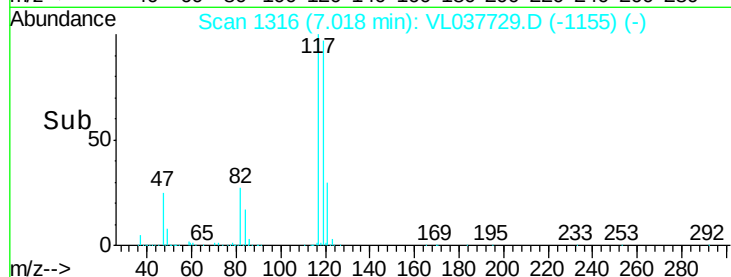
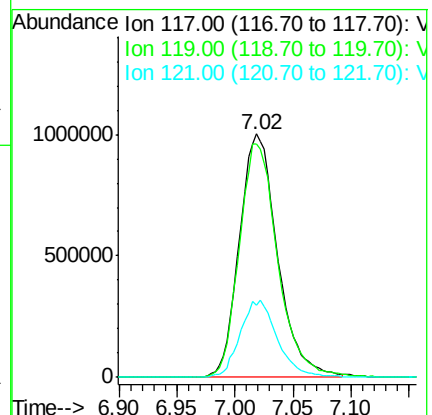
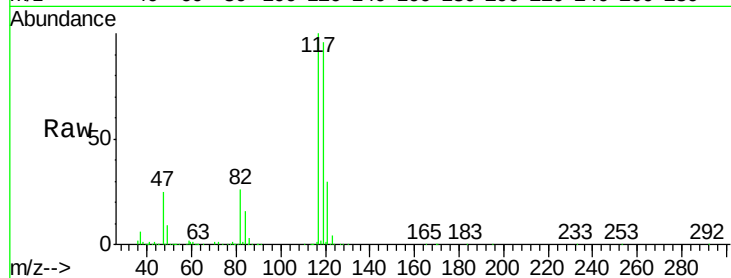
119 96.1 77.0 115.6

121 29.8 24.5 36.7

Manual Integrations
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#36

Benzene

Concen: 10.774 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

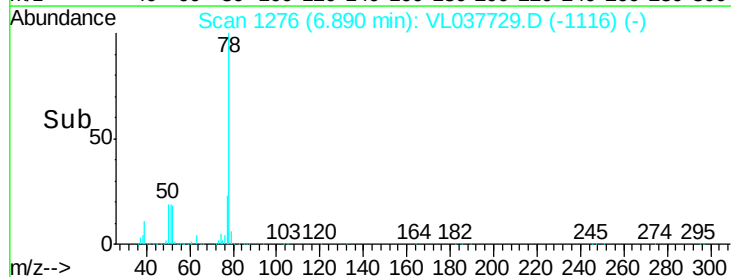
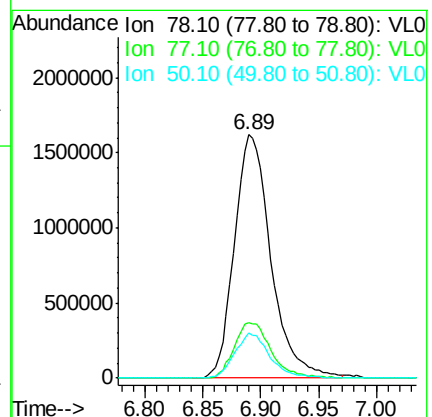
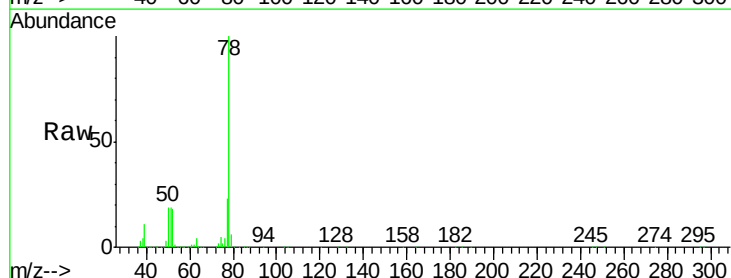
Tgt Ion: 78 Resp: 3526008

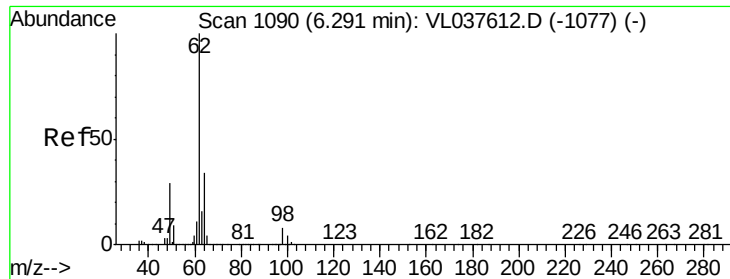
Ion Ratio Lower Upper

78 100

77 22.9 19.0 28.4

50 18.6 14.8 22.2





#37
 1,2-Dichloroethane
 Concen: 10.305 ppbv
 RT: 6.31 min Scan# 1095
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

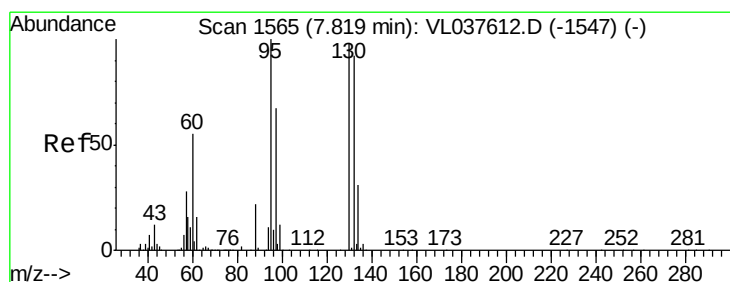
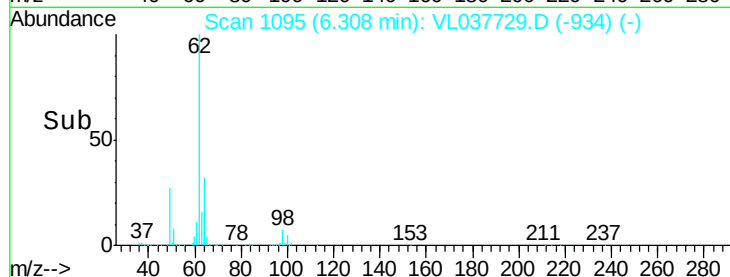
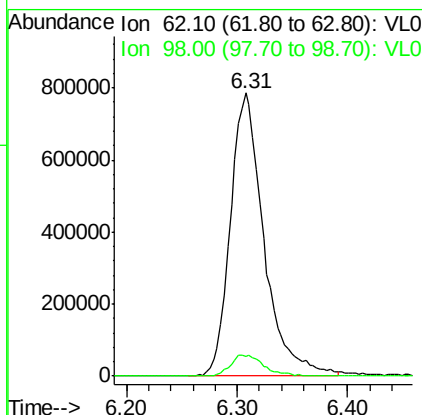
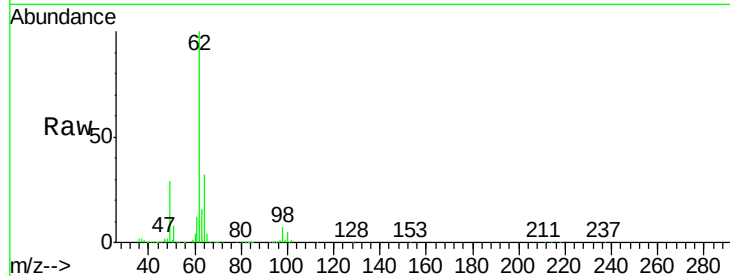
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1658580
 Ion Ratio Lower Upper
 62 100
 98 7.6 6.1 9.1

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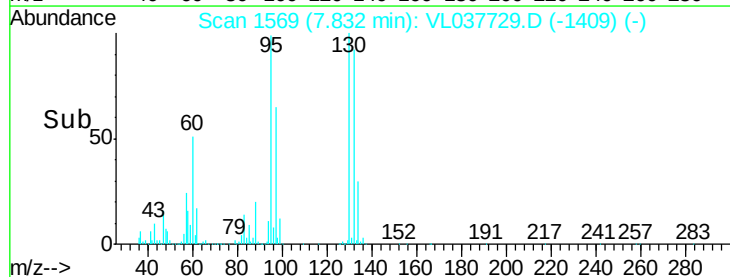
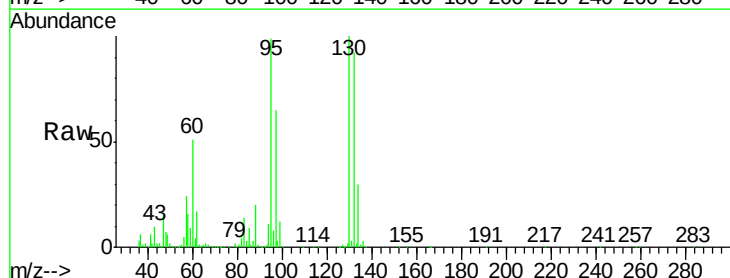
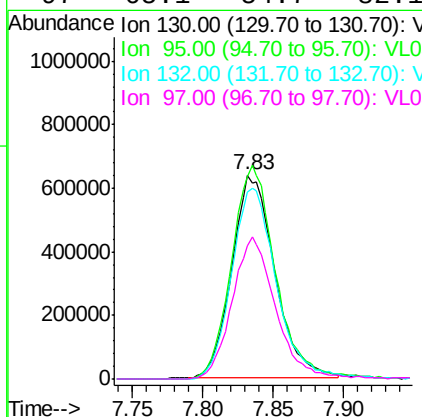
MMDadoda

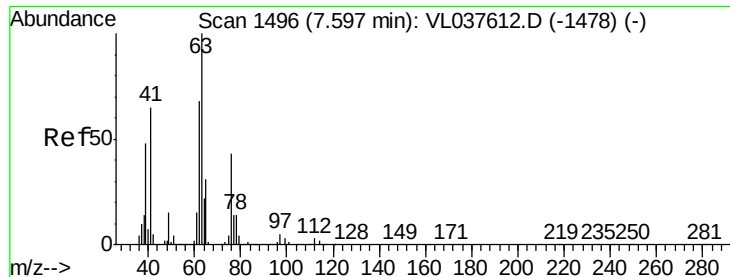
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#38
 Trichloroethene
 Concen: 9.944 ppbv
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion: 130 Resp: 1359348
 Ion Ratio Lower Upper
 130 100
 95 99.4 81.8 122.6
 132 92.2 75.3 112.9
 97 65.1 54.7 82.1





#39

1,2-Dichloropropane

Concen: 10.900 ppbv

RT: 7.61 min Scan# 1501

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1366273

Ion Ratio Lower Upper

63 100

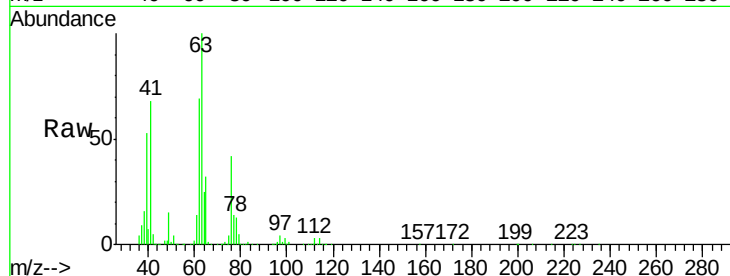
41 67.7 51.6 77.4

62 69.3 54.6 81.8

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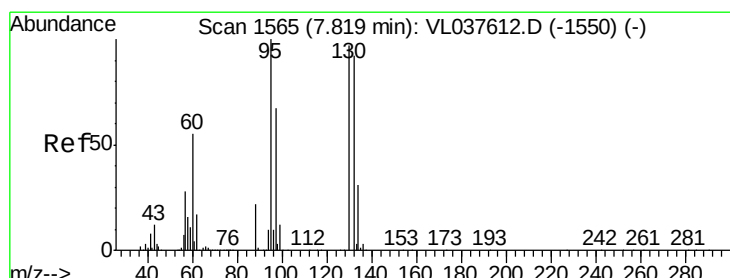
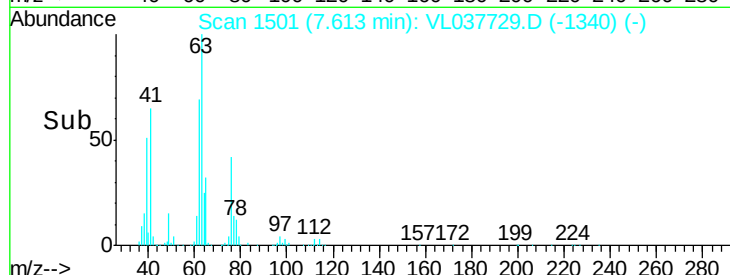
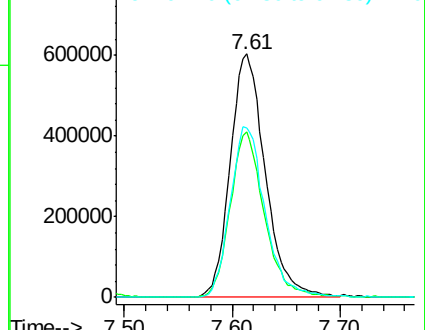
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.755 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tgt Ion: 88 Resp: 327914

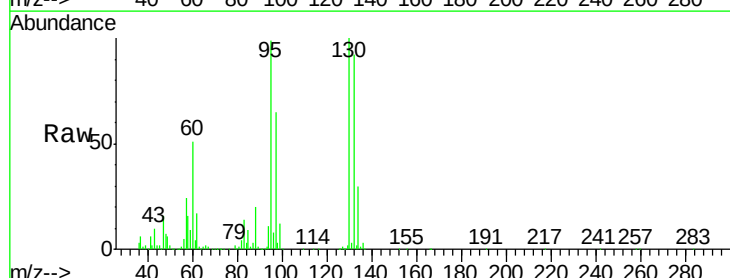
Ion Ratio Lower Upper

88 100

58 0.0 122.4 183.6#

43 0.0 297.4 446.0#

57 0.0 1329.8 1994.8#

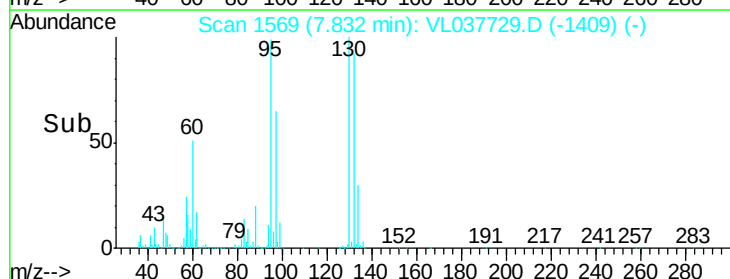
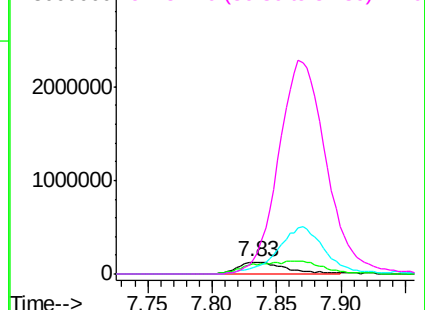


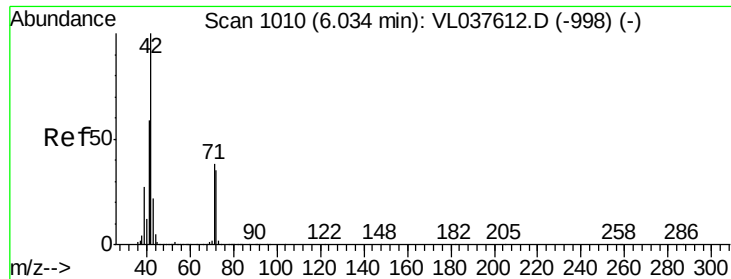
Abundance Ion 88.10 (87.80 to 88.80): VL0

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





#41
Tetrahydrofuran
Concen: 11.228 ppbv
RT: 6.05 min Scan# 1015
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

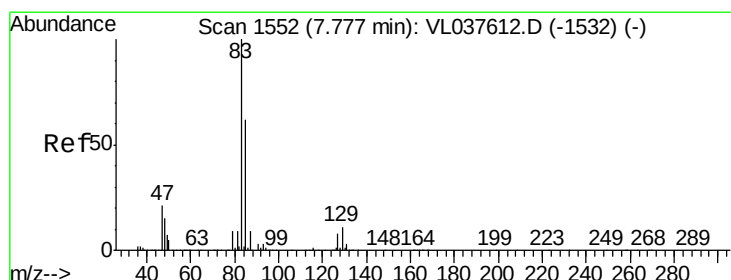
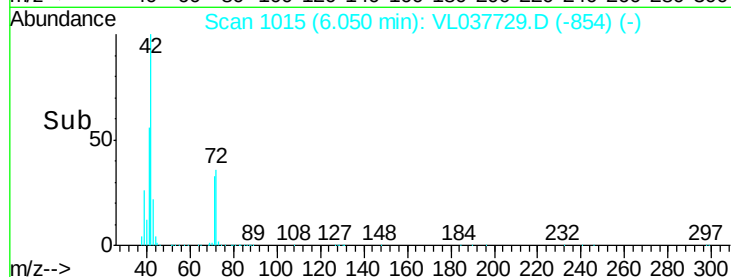
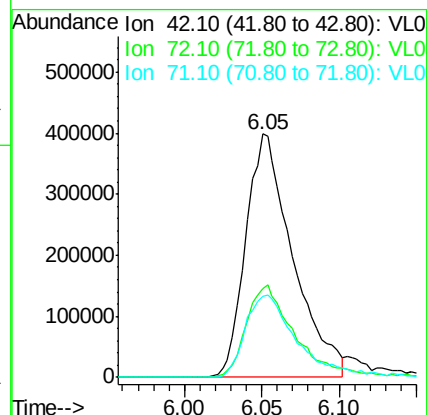
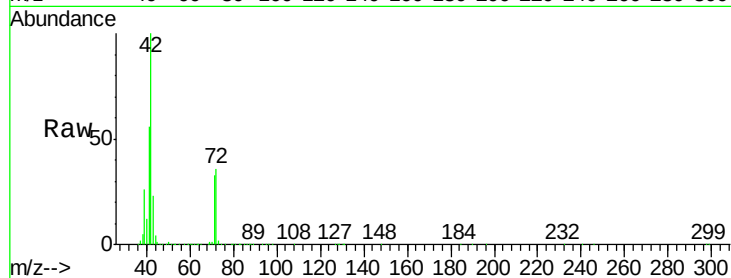
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.4	47.2
71	37.8	30.6	46.0

Manual Integrations
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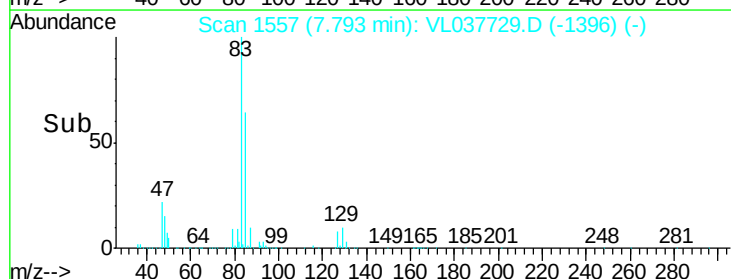
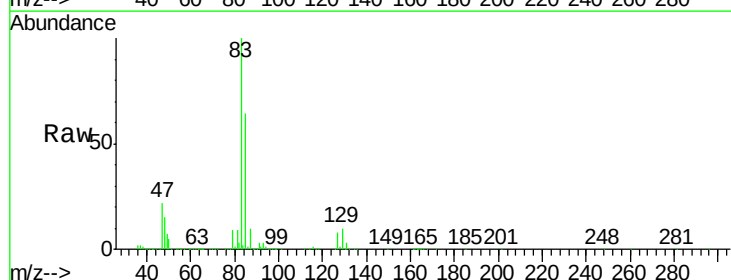
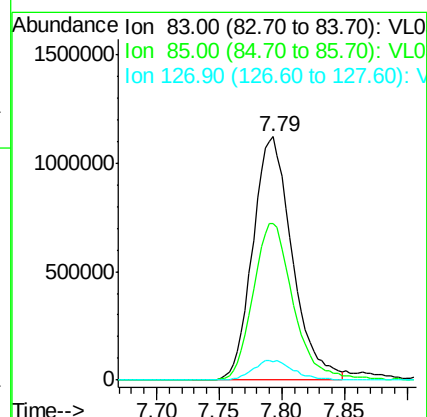
MMDadoda

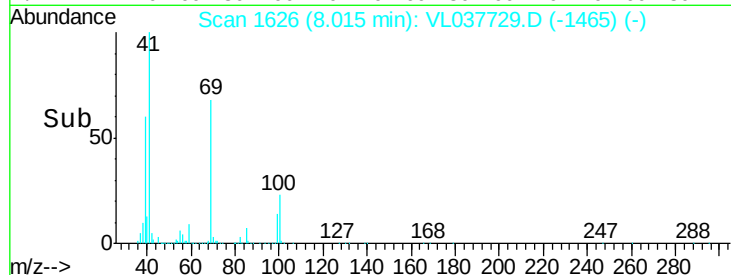
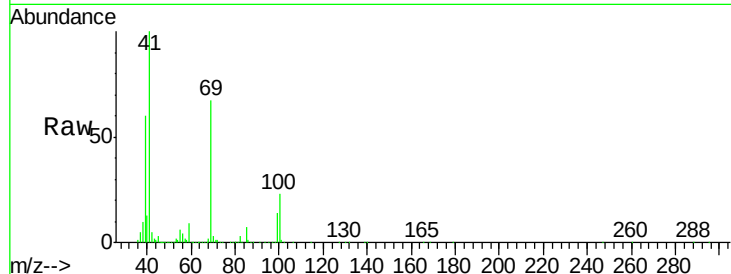
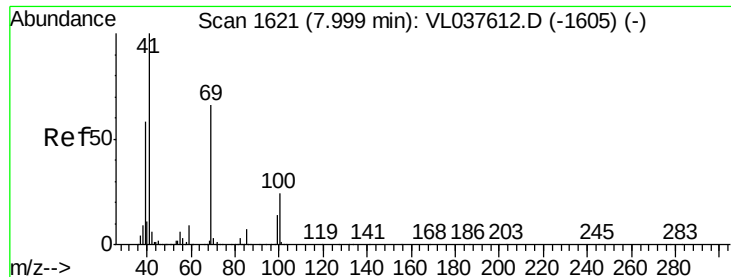
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#42
Bromodichloromethane
Concen: 10.648 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	49.8	74.6
127	7.6	6.4	9.6





#43

Methyl Methacrylate

Concen: 11.759 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

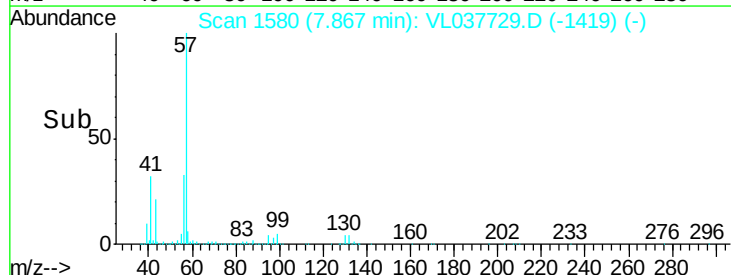
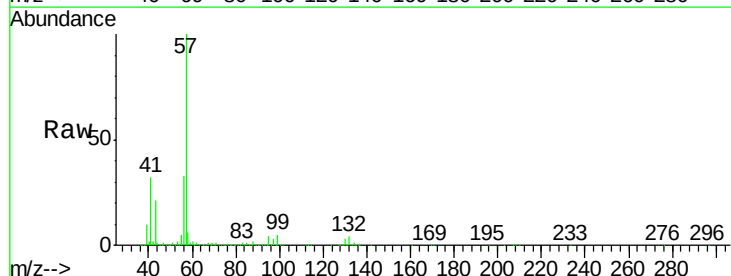
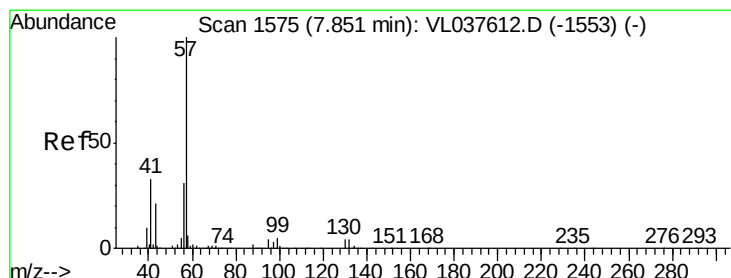
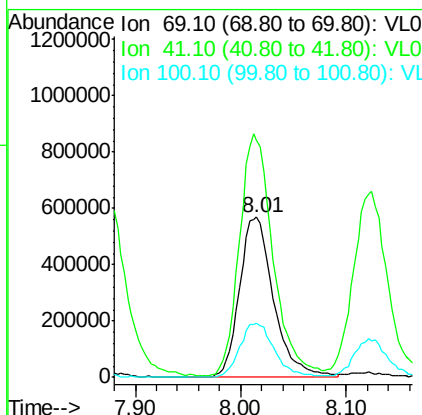
Tot Ion:	69	Resp:	1280238
Ion	Ratio	Lower	Upper
69	100		
41	150.2	119.0	178.4
100	34.4	27.6	41.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 10.715 ppbv

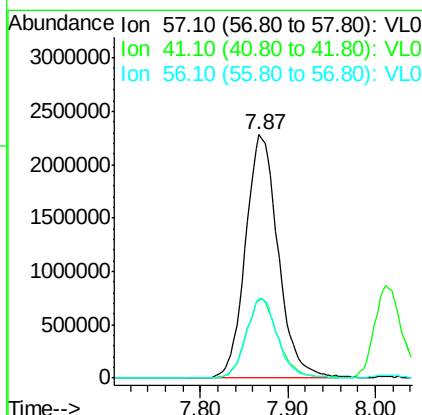
RT: 7.87 min Scan# 1580

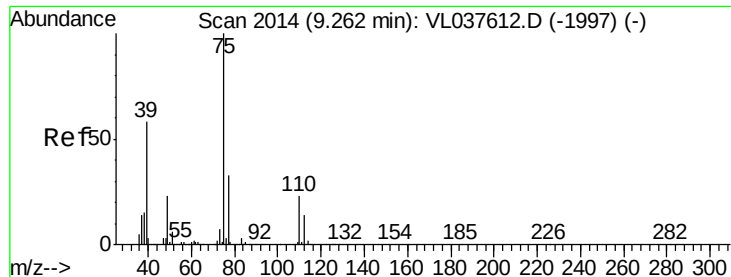
Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tgt Ion:	57	Resp:	5895084
Ion	Ratio	Lower	Upper
57	100		
41	31.8	26.1	39.1
56	31.7	25.7	38.5





#45

t-1,3-Dichloropropene

Concen: 11.375 ppbv

RT: 9.28 min Scan# 2018

Delta R.T. 0.01 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 972741

Ion Ratio Lower Upper

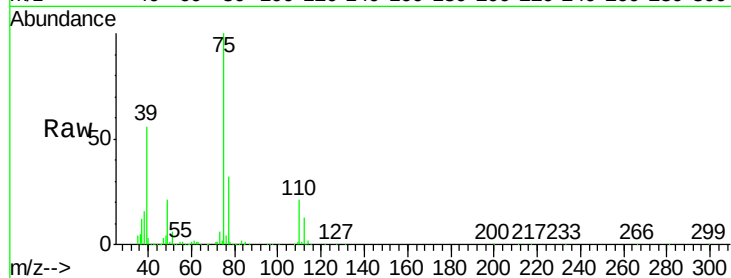
75 100

77 31.5 26.3 39.5

Manual Integrations
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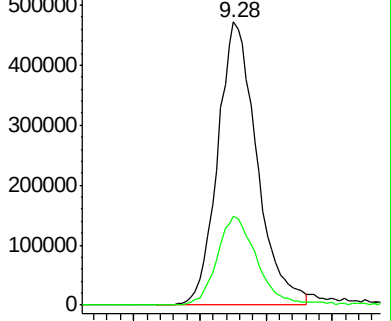
MMDadoda

10/1/2021 11:06:24 AM

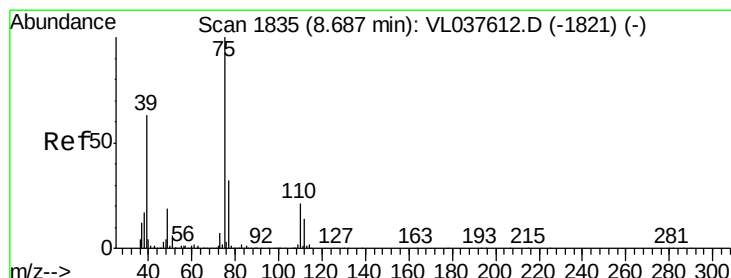
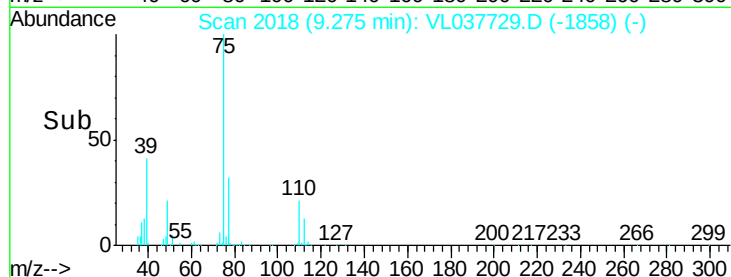


Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.215 ppbv

RT: 8.70 min Scan# 1840

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

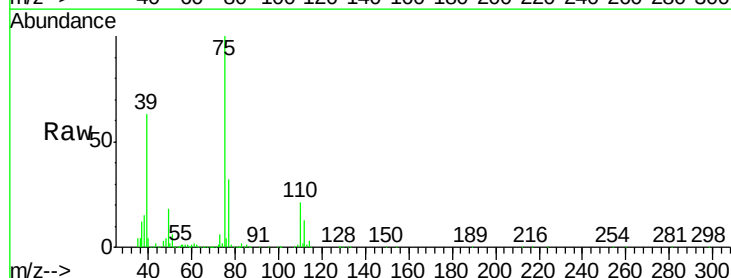
Tgt Ion: 75 Resp: 1295584

Ion Ratio Lower Upper

75 100

39 63.0 50.2 75.4

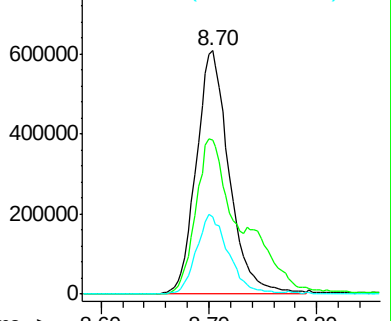
77 31.6 25.2 37.8



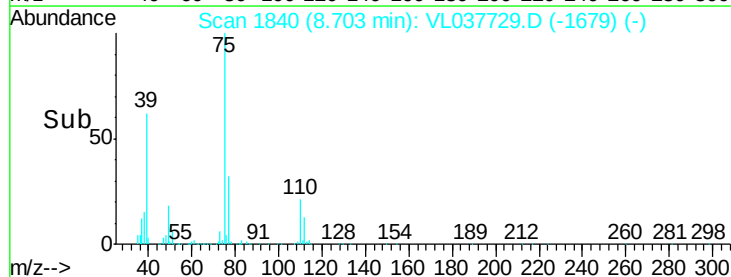
Abundance Ion 75.00 (74.70 to 75.70): VL0

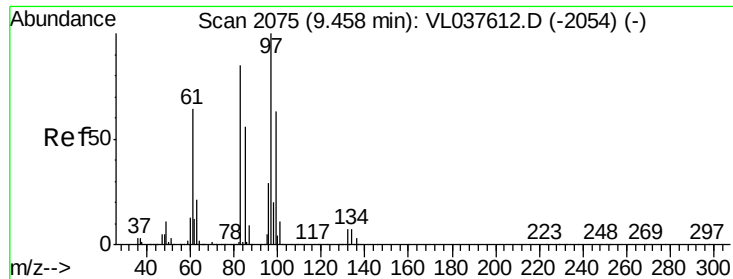
Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



Time-->





#47
 1,1,2-Trichloroethane
 Concen: 10.104 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.01 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

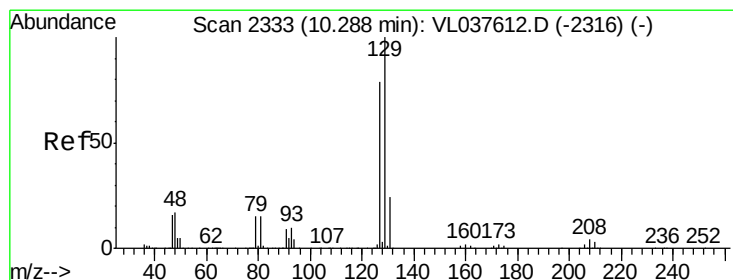
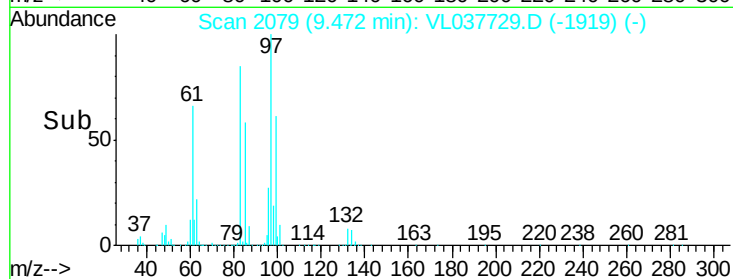
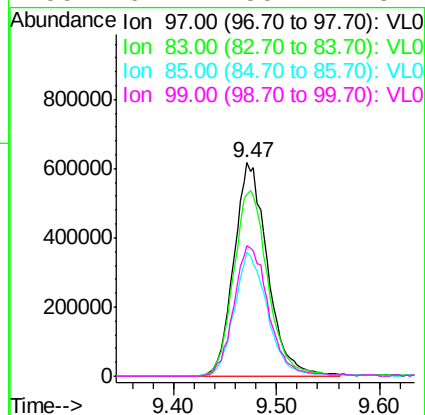
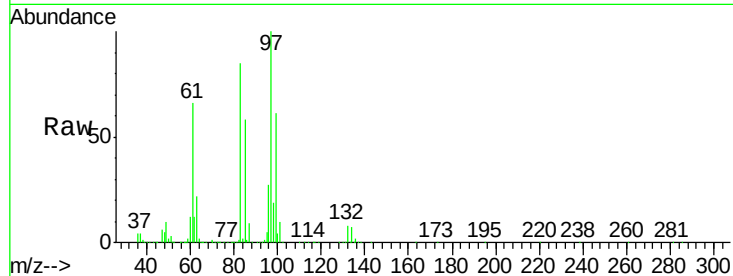
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	97	Resp:	1401001
Ion	Ratio	Lower	Upper
97	100		
83	85.4	67.9	101.9
85	57.9	44.8	67.2
99	61.4	50.1	75.1

Manual Integrations
 APPROVED

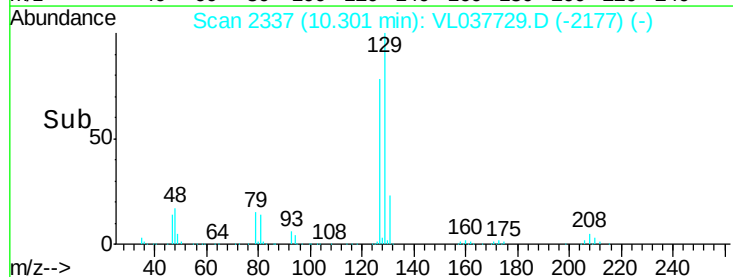
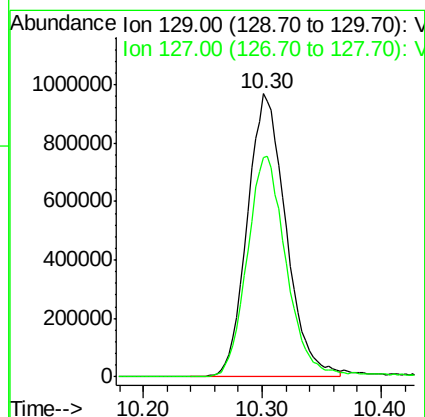
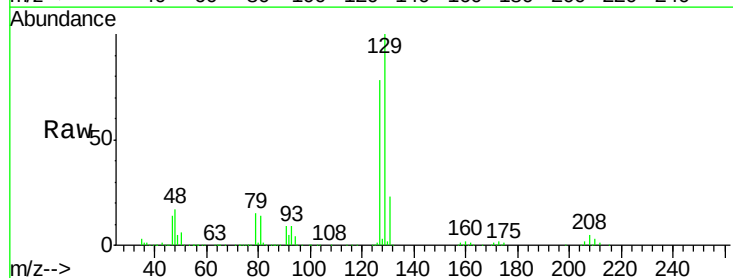
MMDadoda

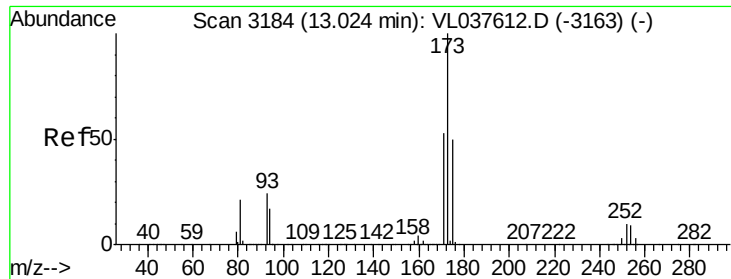
10/1/2021 11:06:24 AM



#48
 Dibromochloromethane
 Concen: 11.261 ppbv
 RT: 10.30 min Scan# 2337
 Delta R.T. 0.01 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion:	129	Resp:	2178377
Ion	Ratio	Lower	Upper
129	100		
127	79.9	39.3	117.8





#49
Bromoform
Concen: 11.305 ppbv
RT: 13.03 min Scan# 3187
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

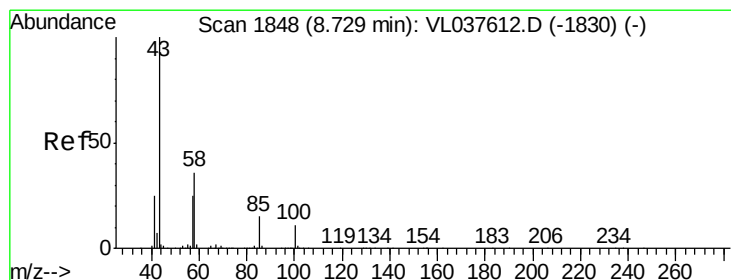
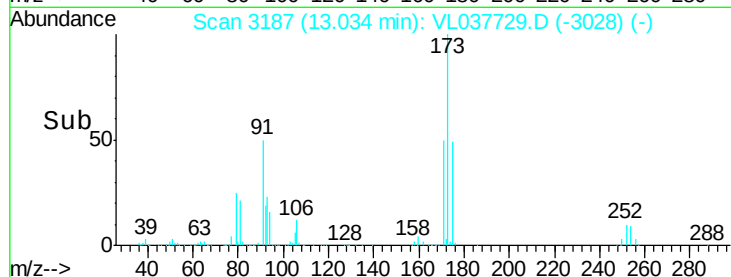
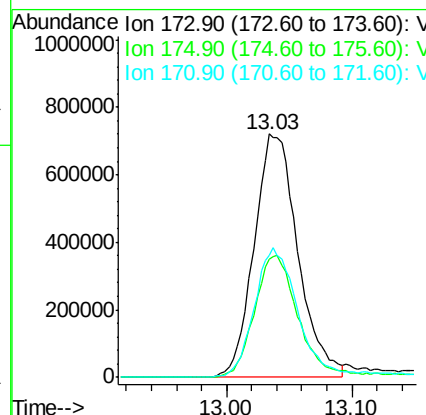
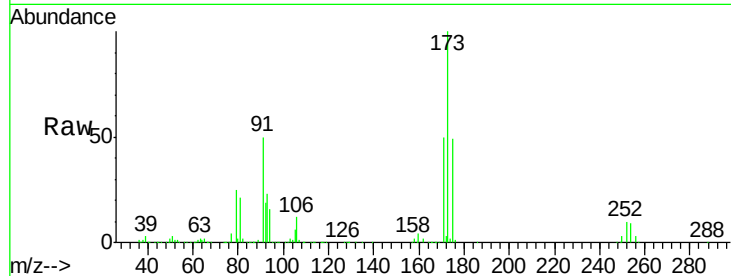
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.4	39.8	59.8
171	55.8	42.2	63.4

Manual Integrations
APPROVED

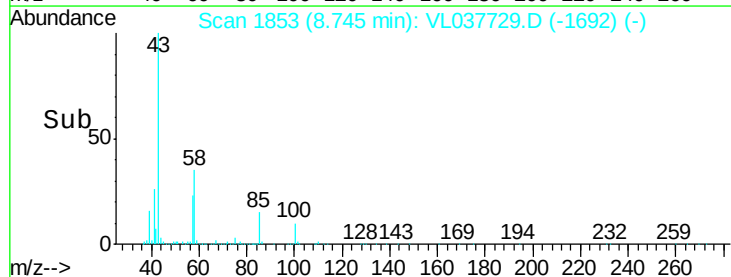
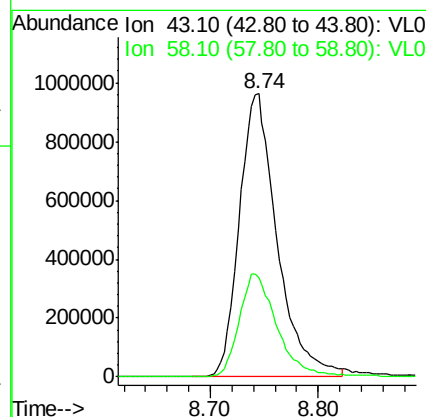
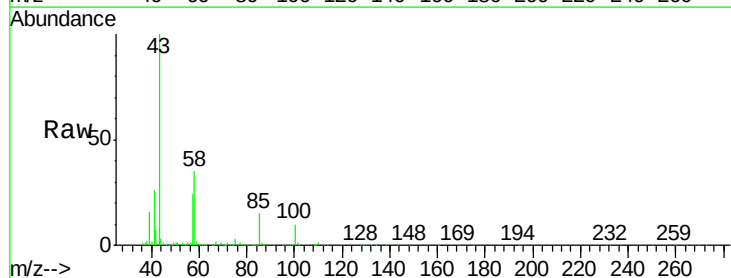
MMDadoda

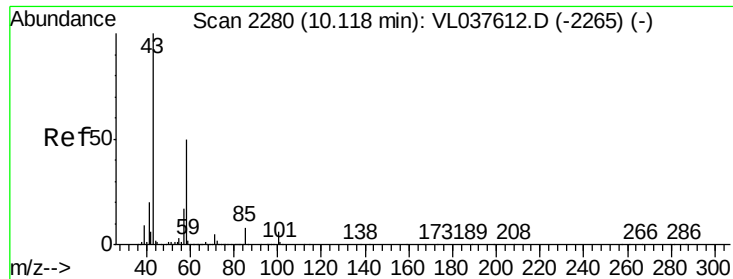
10/1/2021 11:06:24 AM



#50
4-Methyl-2-Pentanone
Concen: 11.597 ppbv
RT: 8.74 min Scan# 1853
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.4	44.2





#51
2-Hexanone
Concen: 12.633 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

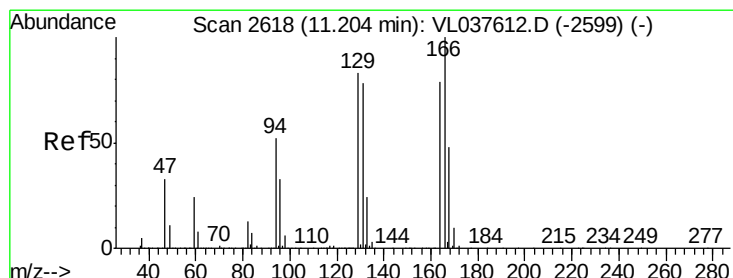
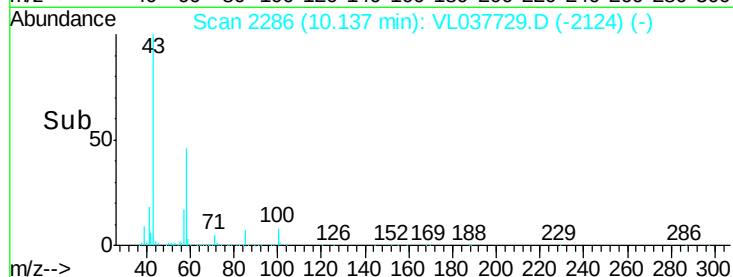
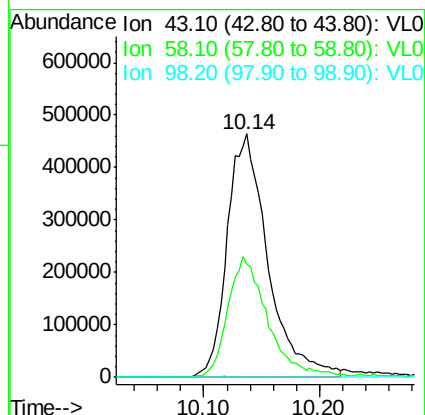
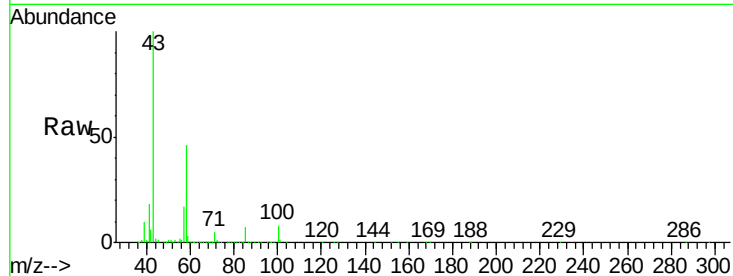
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1128314
Ion Ratio Lower Upper
43 100
58 49.8 39.3 58.9
98 0.4 0.4 0.6#

Manual Integrations
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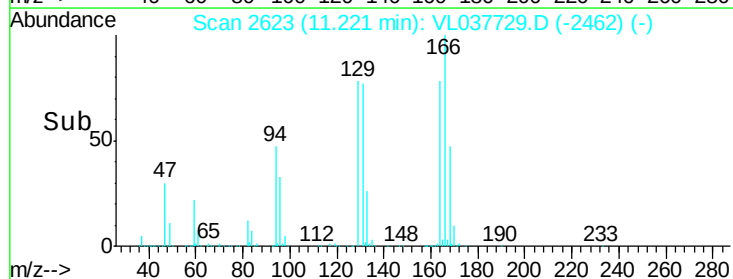
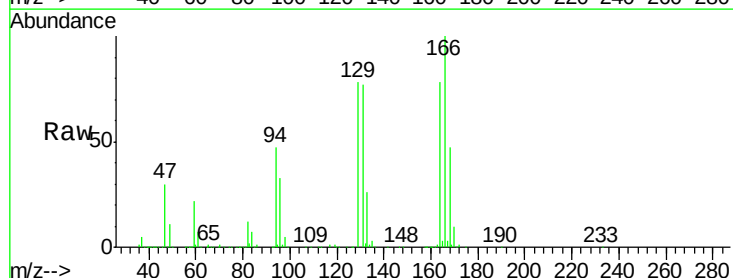
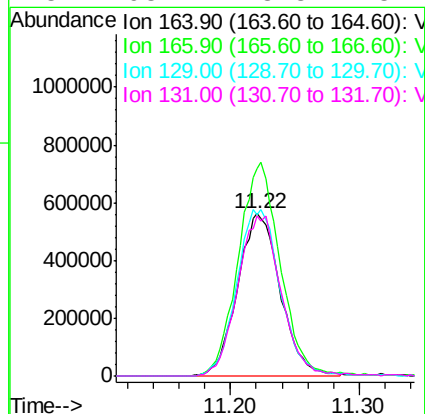
MMDadoda

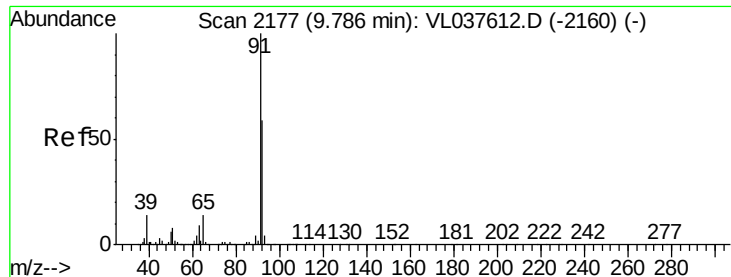
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#52
Tetrachloroethene
Concen: 10.283 ppbv
RT: 11.22 min Scan# 2623
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 164 Resp: 1291876
Ion Ratio Lower Upper
164 100
166 127.6 101.2 151.8
129 99.3 84.0 126.0
131 98.7 78.8 118.2





#53

Toluene

Concen: 11.198 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4073600

Ion Ratio Lower Upper

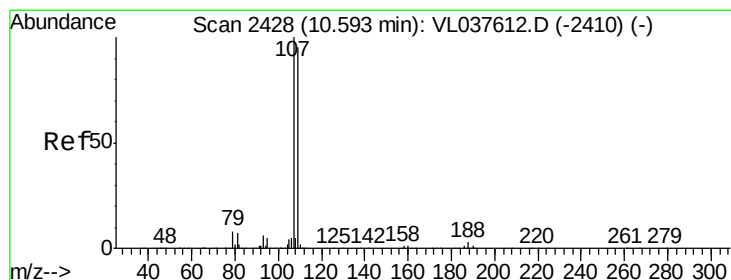
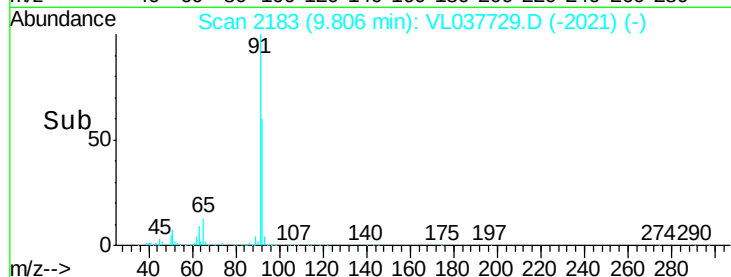
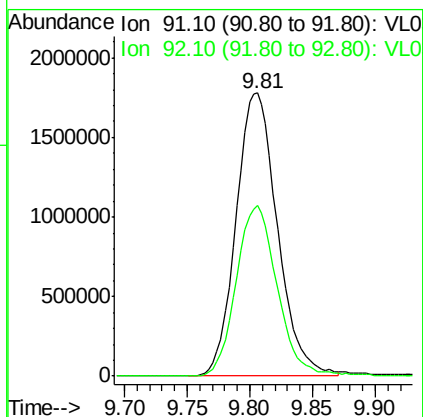
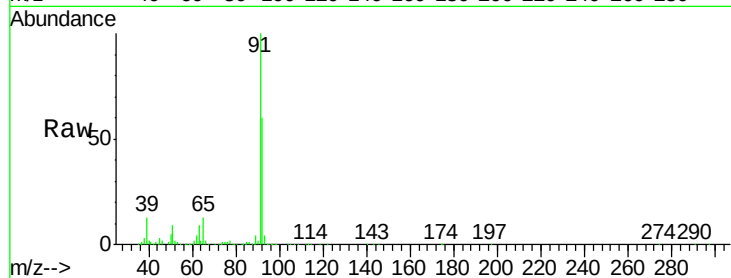
91 100

92 60.2 48.9 73.3

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 10.378 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. 0.02 min

Lab File: VL037729.D

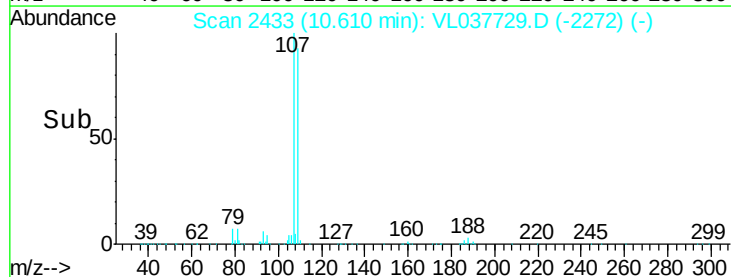
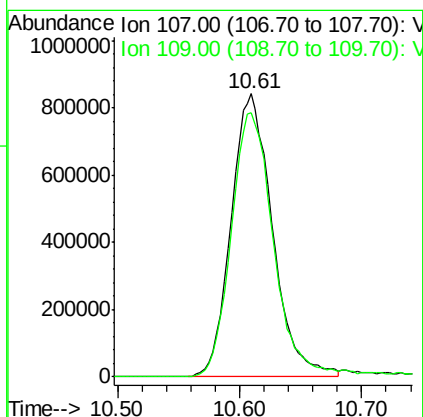
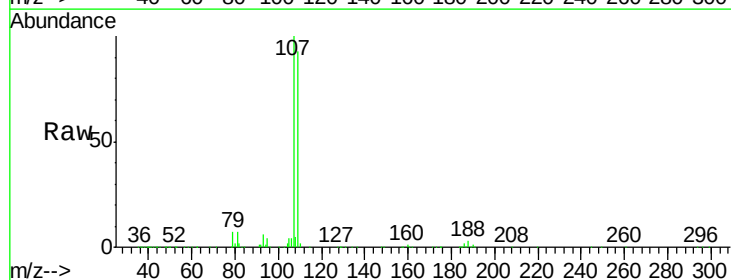
Acq: 29 Sep 2021 12:47

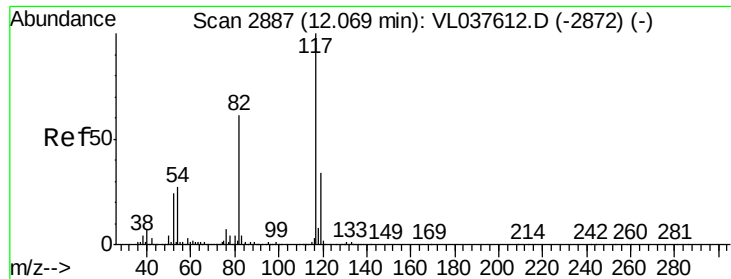
Tgt Ion: 107 Resp: 1970436

Ion Ratio Lower Upper

107 100

109 93.3 76.0 114.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.08 min Scan# 2891
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

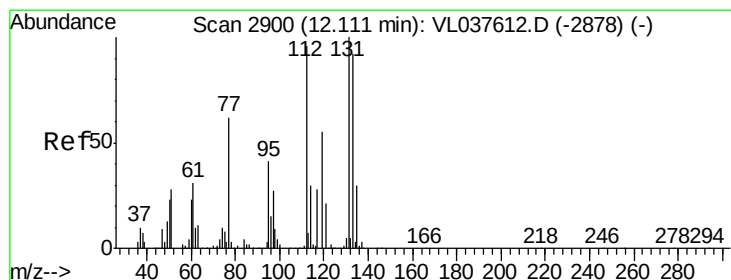
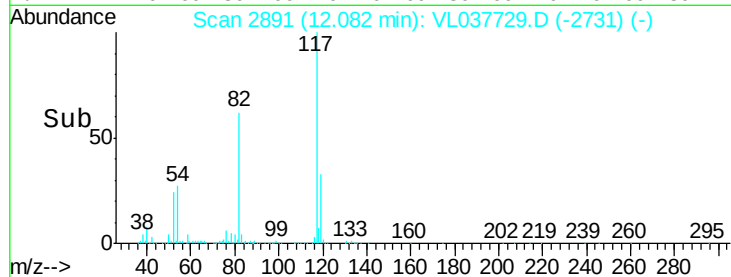
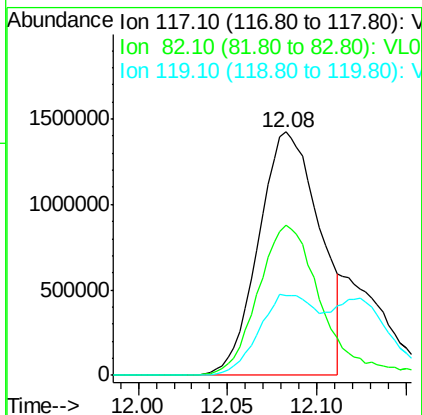
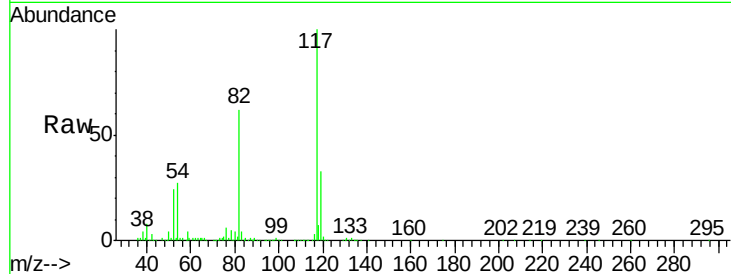
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 3377948
Ion Ratio Lower Upper
117 100
82 67.2 50.6 75.8
119 34.8 26.2 39.2

Manual Integrations
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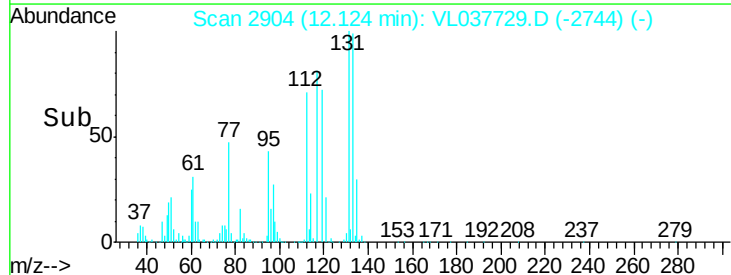
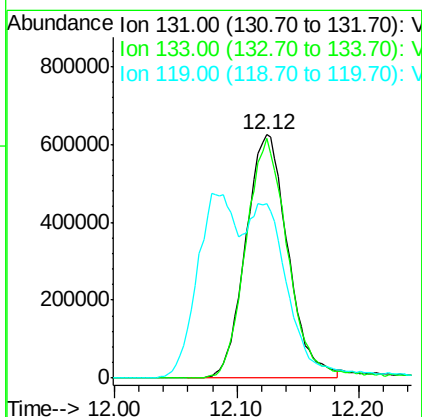
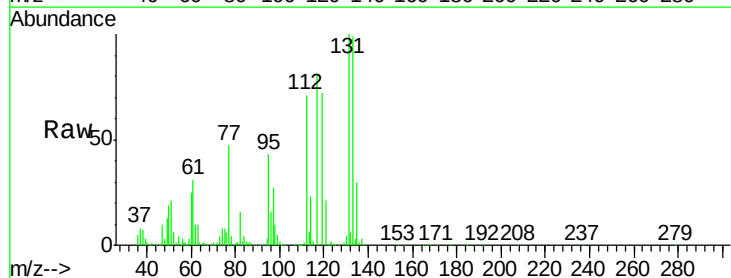
MMDadoda

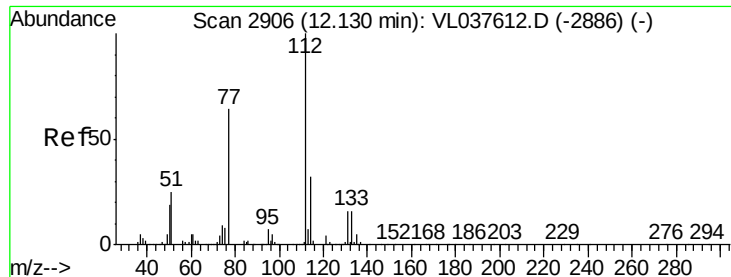
10/1/2021 11:06:24 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.616 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion:131 Resp: 1487485
Ion Ratio Lower Upper
131 100
133 98.8 76.8 115.2
119 71.8 47.8 71.8#





#57

Chlorobenzene

Concen: 10.203 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 2865379

Ion Ratio Lower Upper

112 100

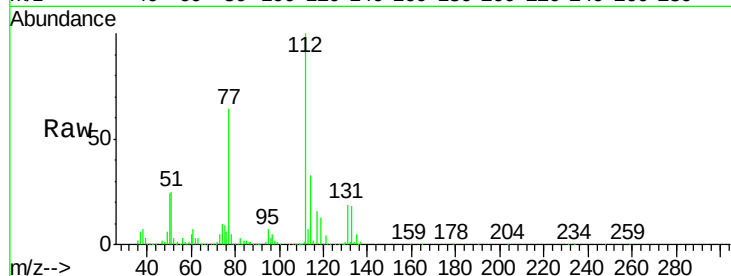
77 63.1 52.1 78.1

114 32.5 29.2 35.6

Manual Integrations
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MMDadoda

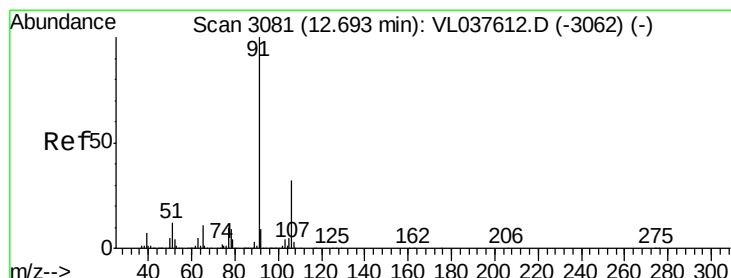
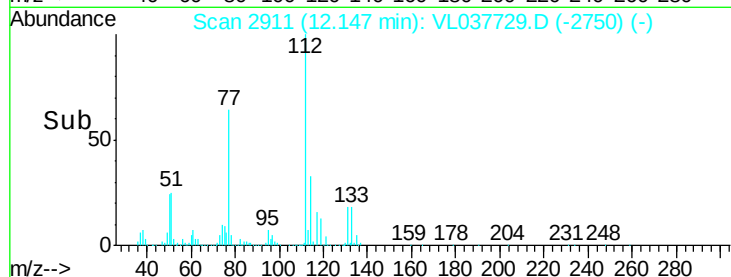
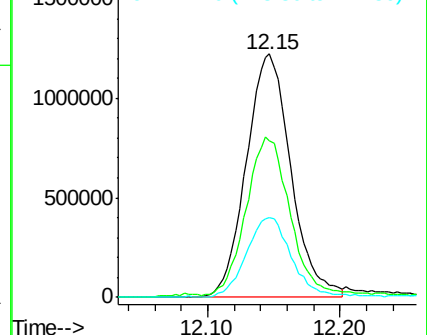
10/1/2021 11:06:24 AM



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: 11.426 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. 0.02 min

Lab File: VL037729.D

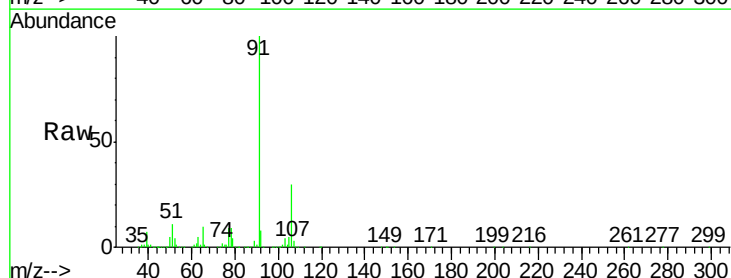
Acq: 29 Sep 2021 12:47

Tgt Ion: 91 Resp: 5123584

Ion Ratio Lower Upper

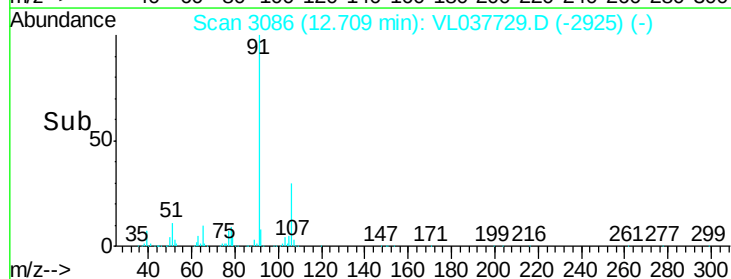
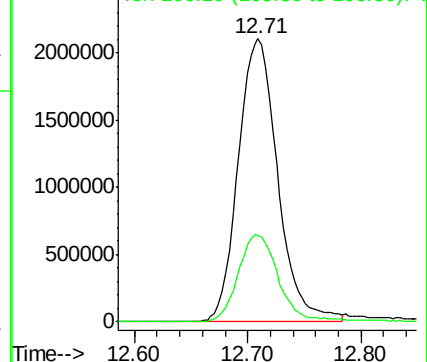
91 100

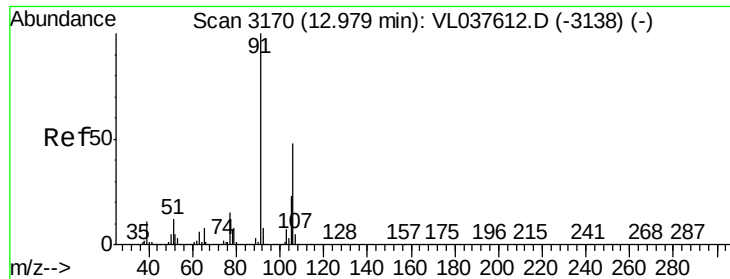
106 30.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59
m/p-Xylene
Concen: 21.703 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. 0.01 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

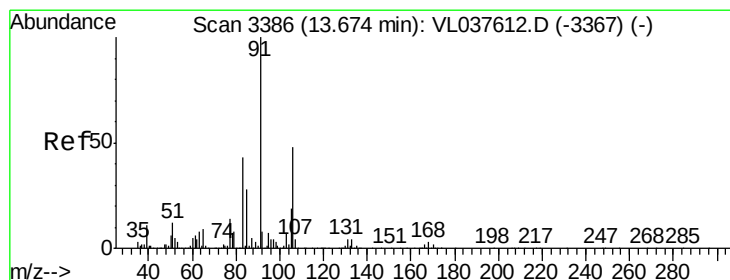
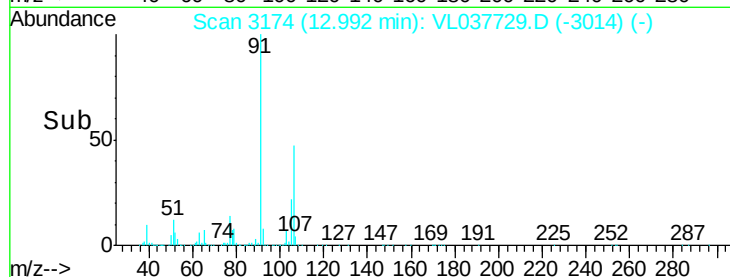
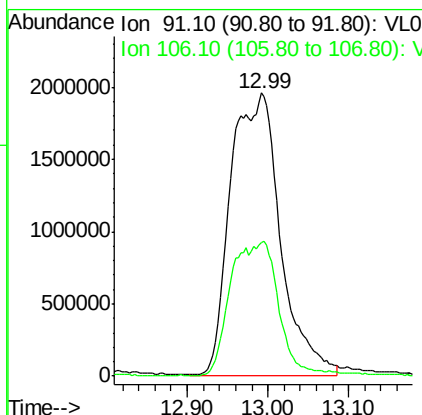
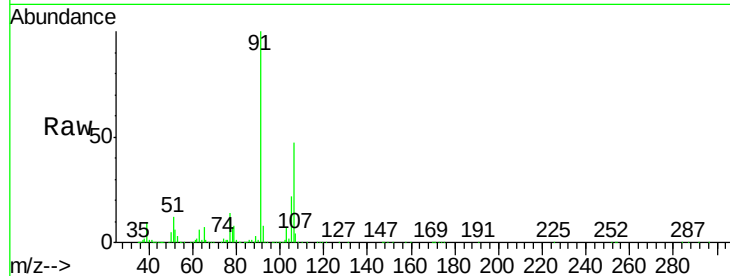
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8480517
Ion Ratio Lower Upper
91 100
106 46.8 36.6 55.0

Manual Integrations
APPROVED

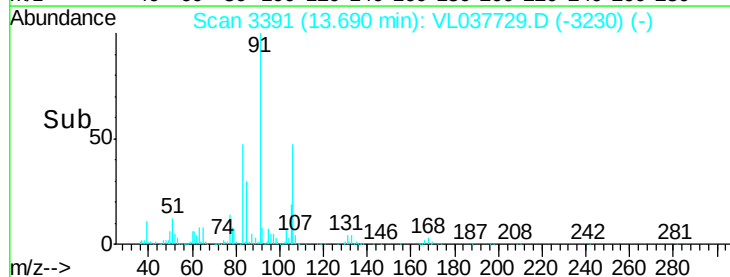
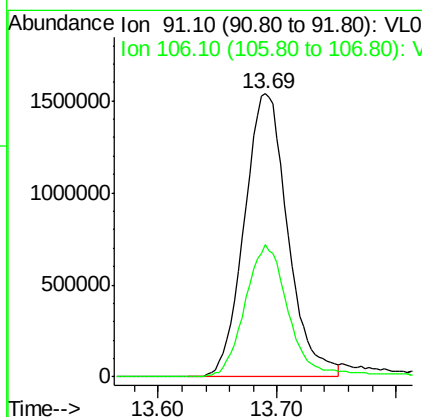
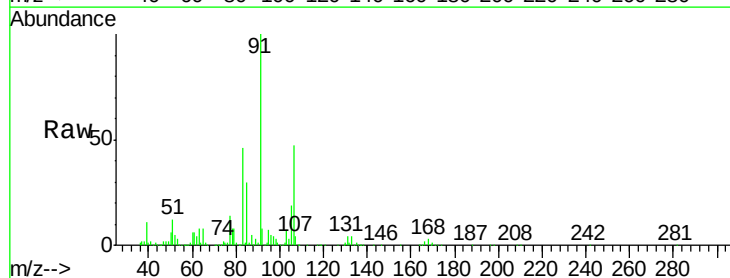
MMDadoda

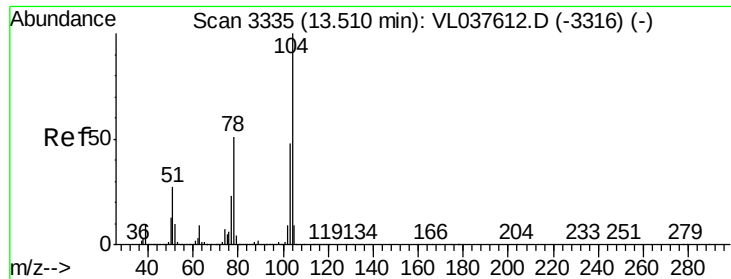
10/1/2021 11:06:24 AM



#60
o-Xylene
Concen: 10.460 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion: 91 Resp: 3890258
Ion Ratio Lower Upper
91 100
106 48.0 23.0 69.0





#61
Stvrene
Concen: 12.030 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

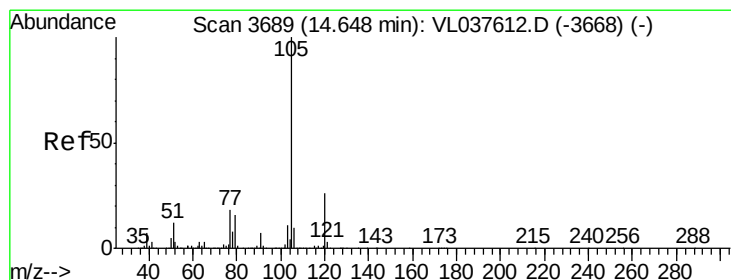
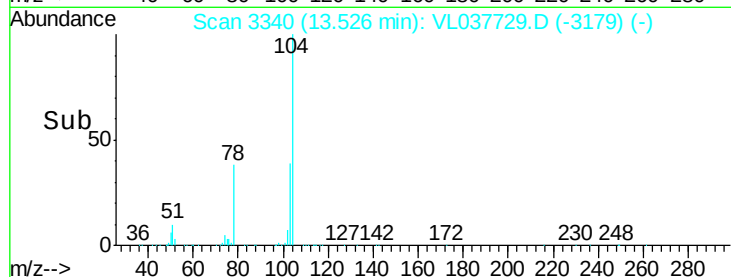
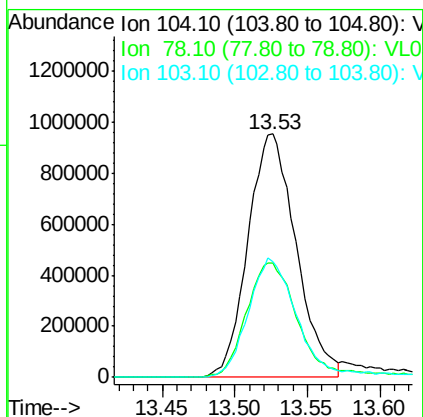
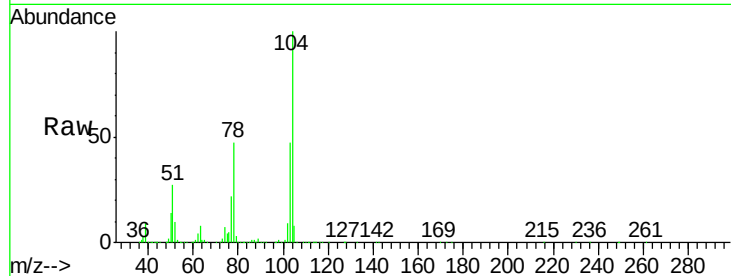
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.2	39.7	59.5
103	50.7	38.8	58.2

Manual Integrations
APPROVED

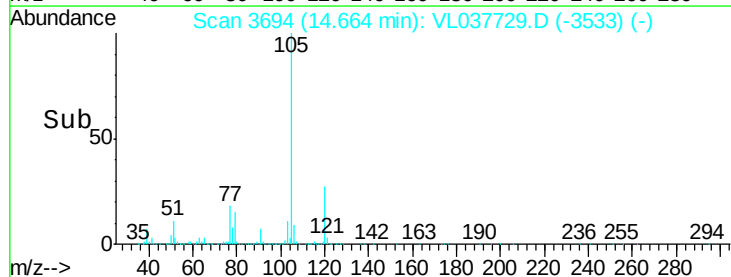
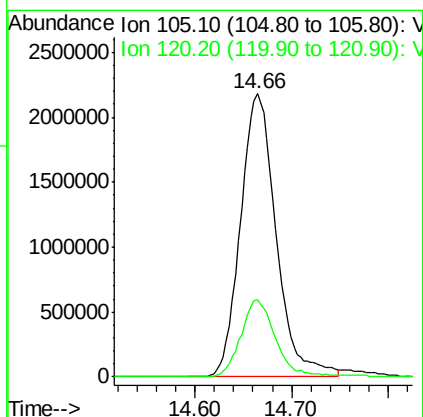
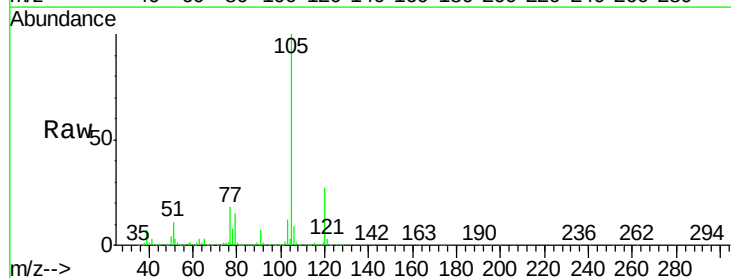
MMDadoda

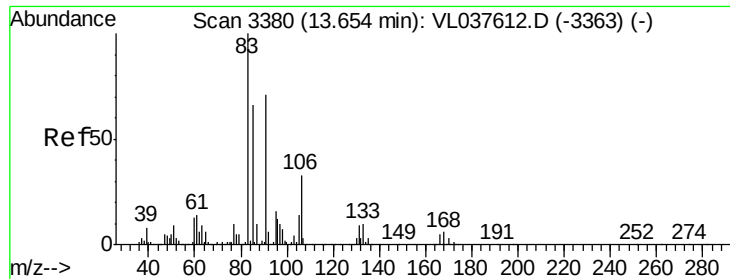
10/1/2021 11:06:24 AM



#62
Isopropylbenzene
Concen: 10.760 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	21.4	32.0





#63

1,1,2,2-Tetrachloroethane

Concen: 9.850 ppbv

RT: 13.67 min Scan# 3386

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 2867006

Ion Ratio Lower Upper

83 100

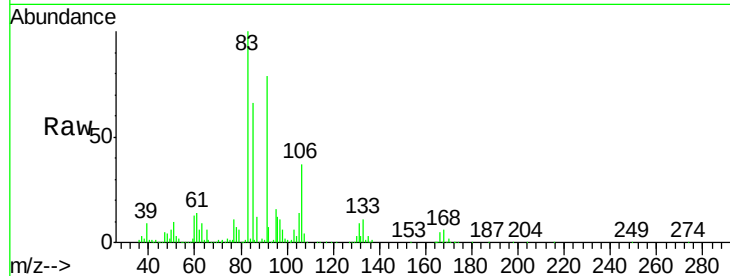
131 10.0 5.1 15.3

85 66.7 33.3 99.9

Manual Integrations
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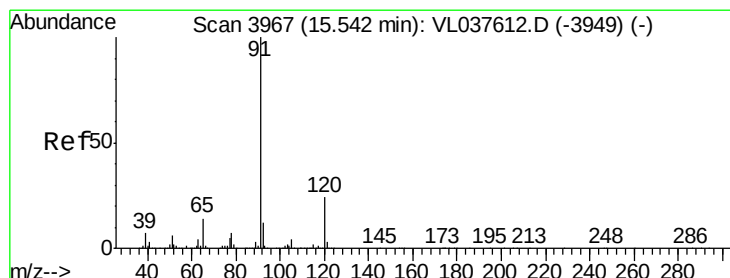
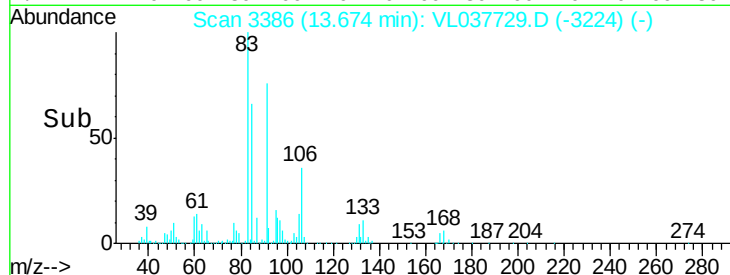
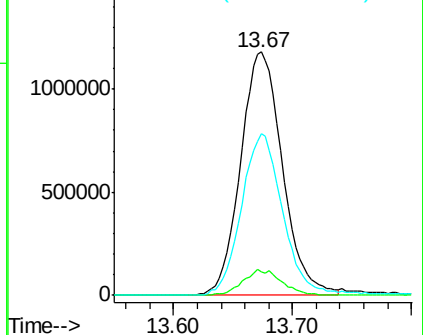
10/1/2021 11:06:24 AM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 11.085 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.02 min

Lab File: VL037729.D

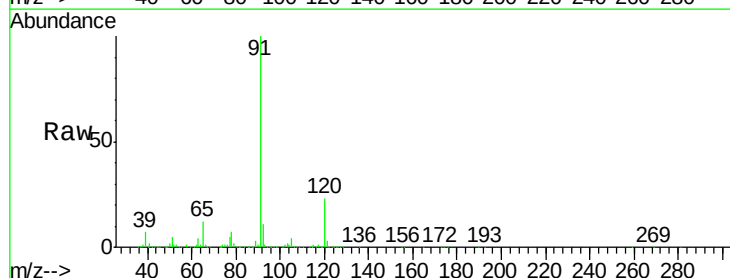
Acq: 29 Sep 2021 12:47

Tgt Ion: 120 Resp: 1486222

Ion Ratio Lower Upper

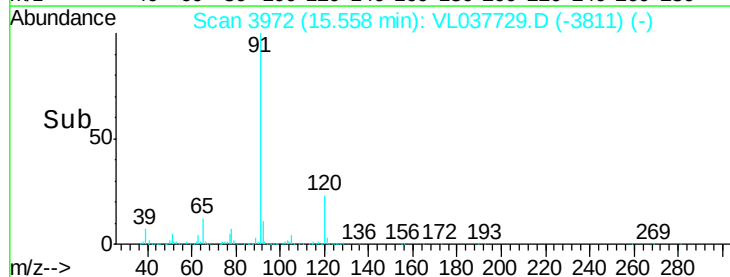
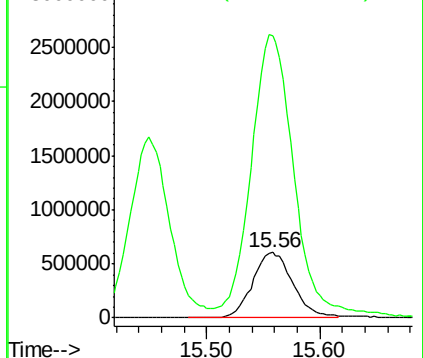
120 100

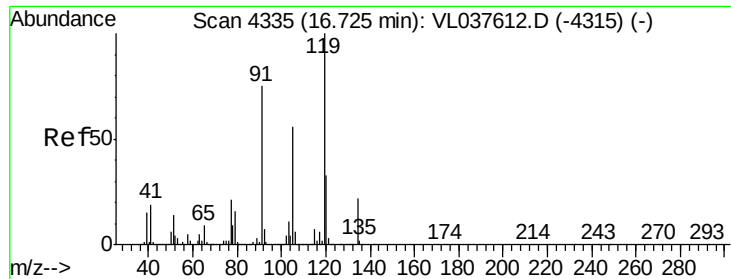
91 466.8 345.0 517.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65
 tert-Butylbenzene
 Concen: 10.491 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

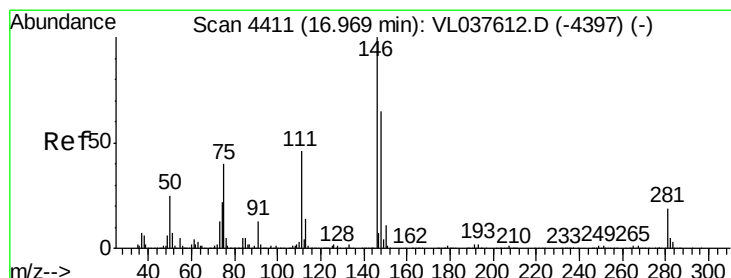
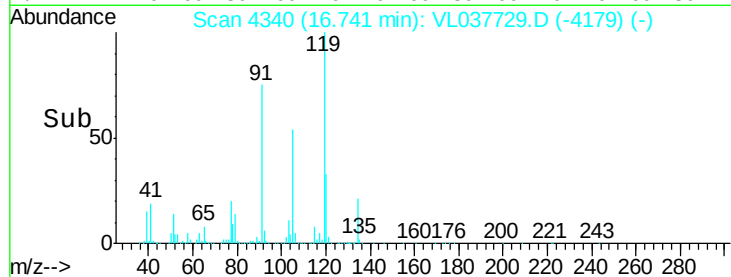
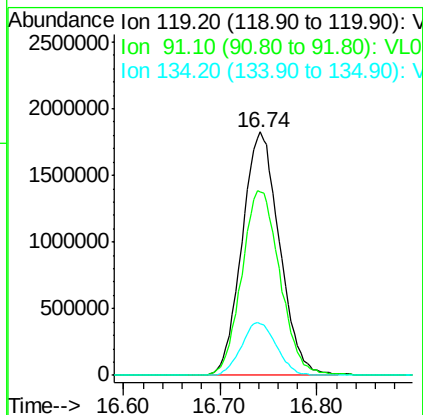
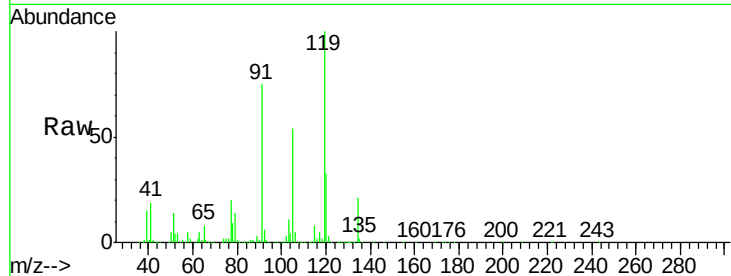
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:119	Resp: 4914581
Ion Ratio	Lower Upper
119 100	
91 77.3	61.9 92.9
134 20.5	16.5 24.7

Manual Integrations
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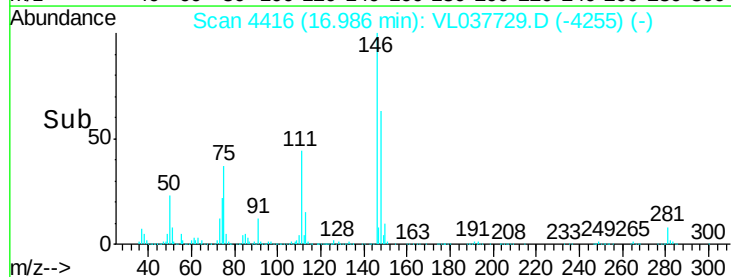
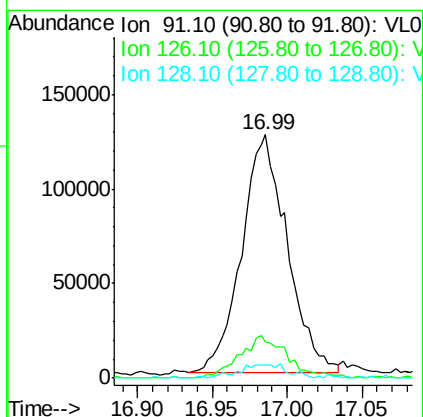
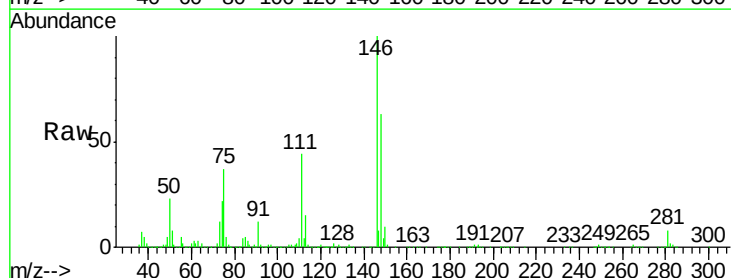
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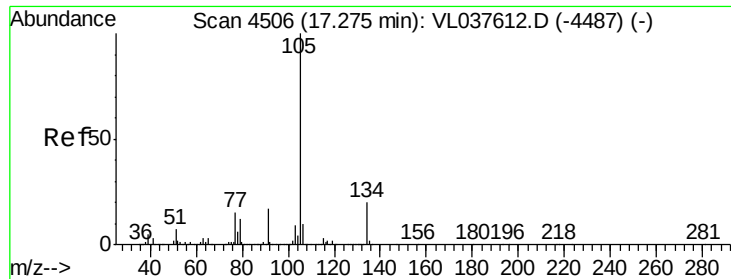
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#66
 Benzyl Chloride
 Concen: 10.463 ppbv
 RT: 16.99 min Scan# 4416
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion: 91	Resp: 267855
Ion Ratio	Lower Upper
91 100	
126 19.1	14.4 21.6
128 6.6	5.7 8.5





#67

sec-Butylbenzene

Concen: 10.788 ppbv

RT: 17.29 min Scan# 4511

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 6856345

Ion Ratio Lower Upper

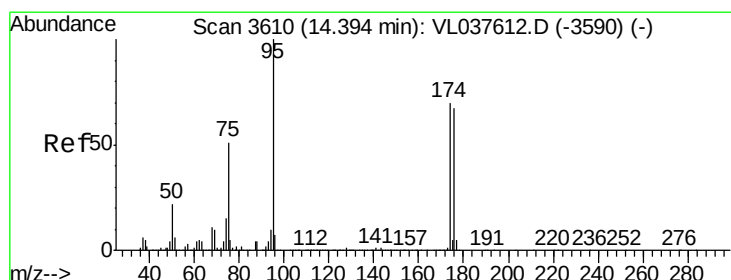
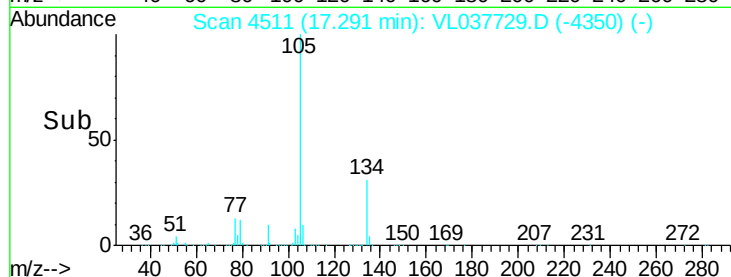
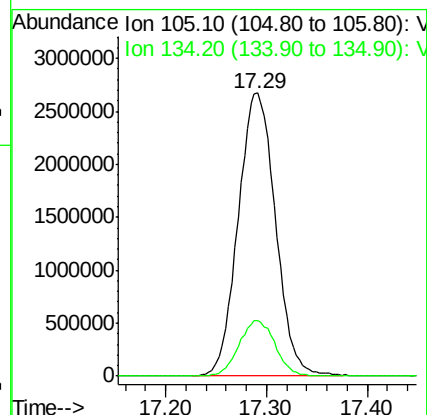
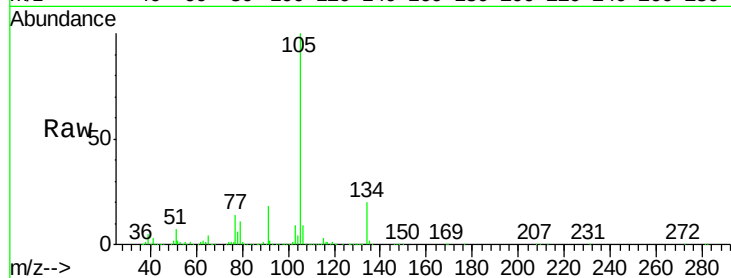
105 100

134 19.2 15.7 23.5

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.619 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

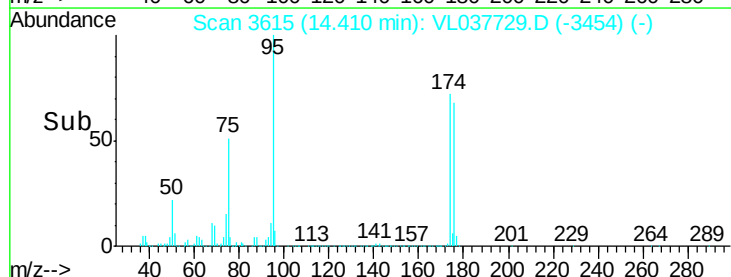
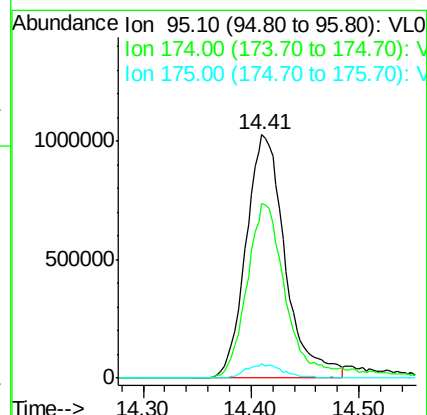
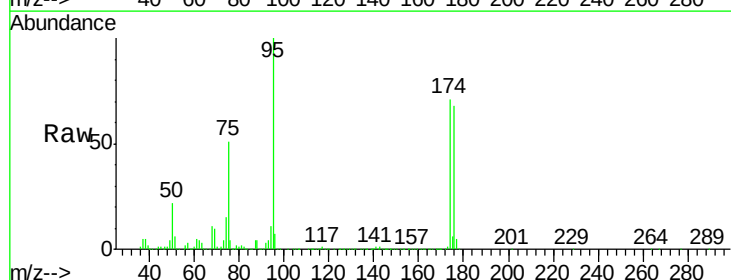
Tgt Ion: 95 Resp: 2592336

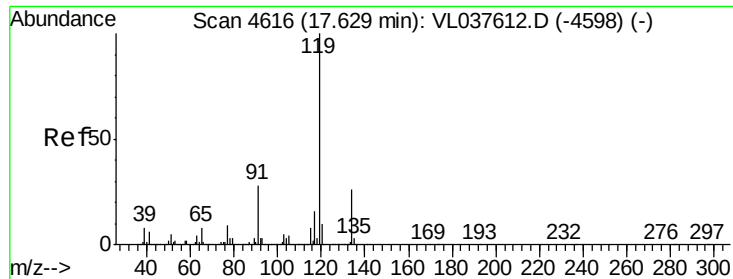
Ion Ratio Lower Upper

95 100

174 74.5 56.3 84.5

175 5.6 4.4 6.6





#69
 p-Isopropyltoluene
 Concen: 11.049 ppbv
 RT: 17.65 min Scan# 4622
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

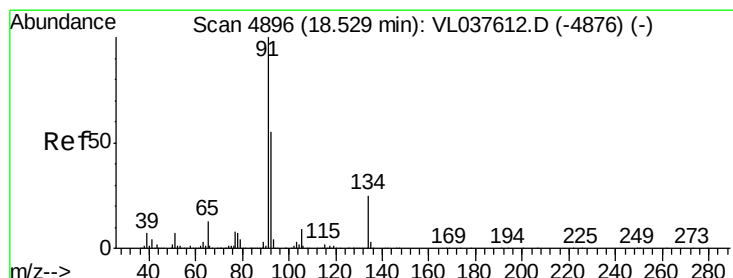
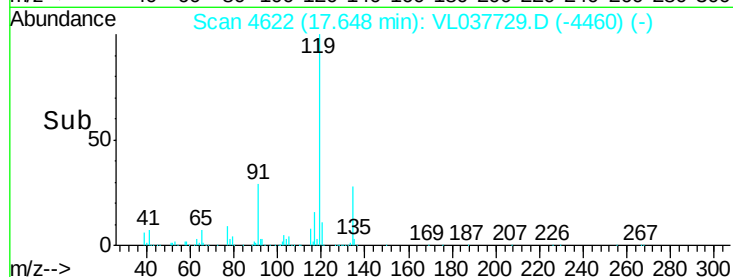
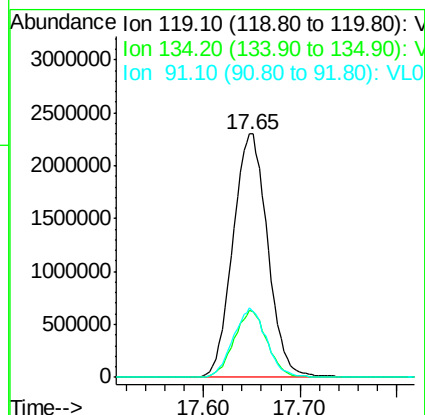
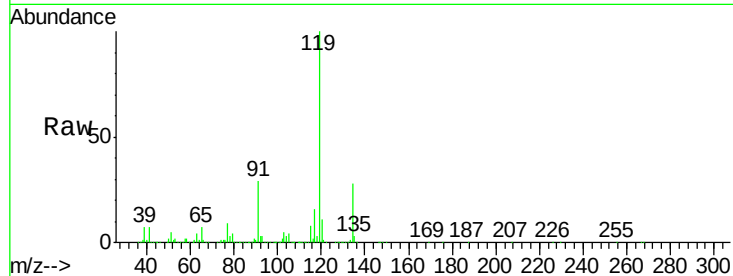
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	119	Resp:	5737322
Ion	Ratio	Lower	Upper
119	100		
134	26.2	21.2	31.8
91	27.2	22.2	33.2

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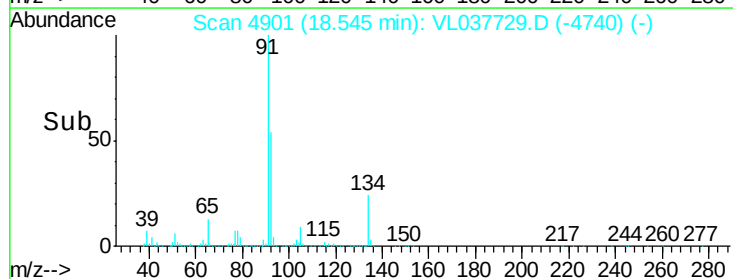
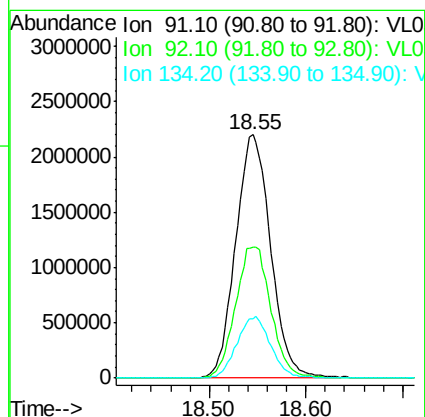
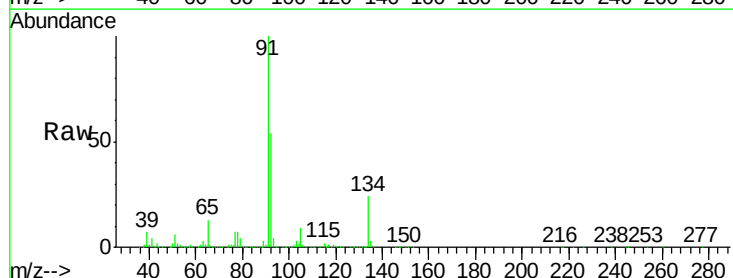
MMDadoda

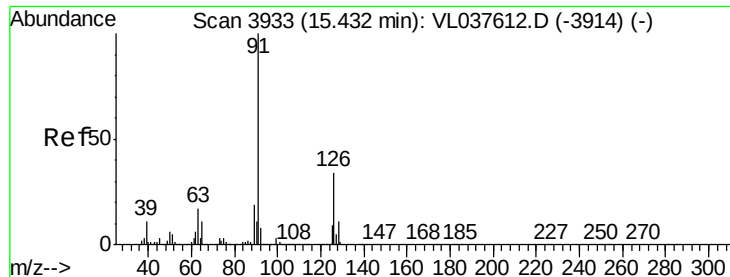
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#70
 n-Butylbenzene
 Concen: 11.244 ppbv
 RT: 18.55 min Scan# 4901
 Delta R.T. 0.02 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Tgt Ion:	91	Resp:	5524088
Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.0	66.0
134	24.7	19.5	29.3





#71

2-Chlorotoluene

Concen: 10.893 ppbv

RT: 15.45 min Scan# 3938

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4056061

Ion Ratio Lower Upper

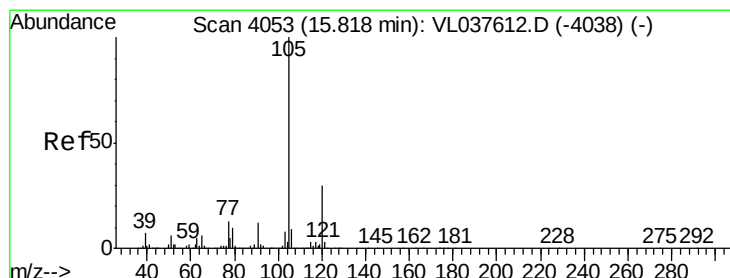
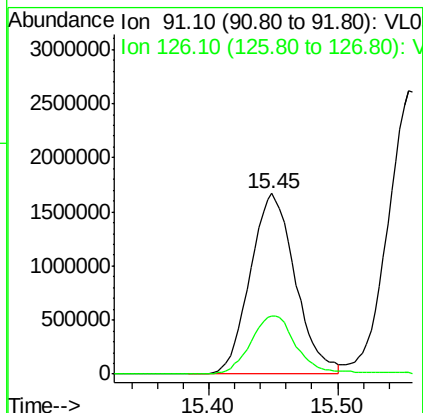
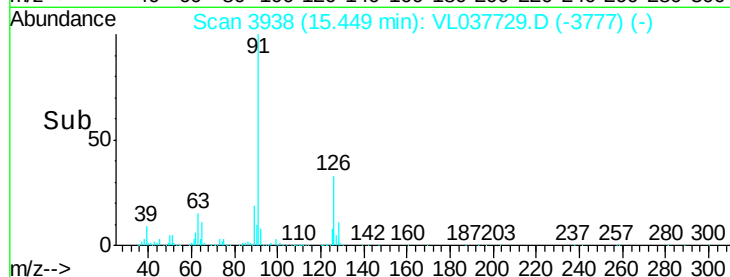
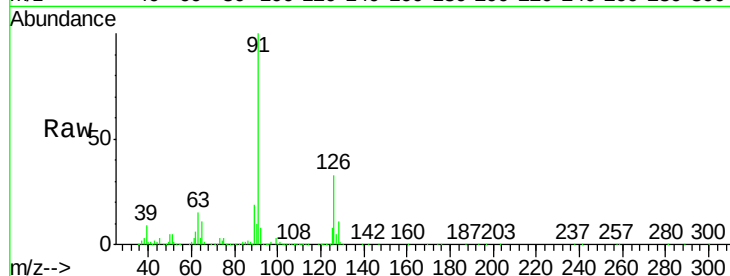
91 100

126 34.1 13.2 52.8

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#72

4-Ethyltoluene

Concen: 11.570 ppbv

RT: 15.84 min Scan# 4059

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tgt Ion: 105 Resp: 4939536

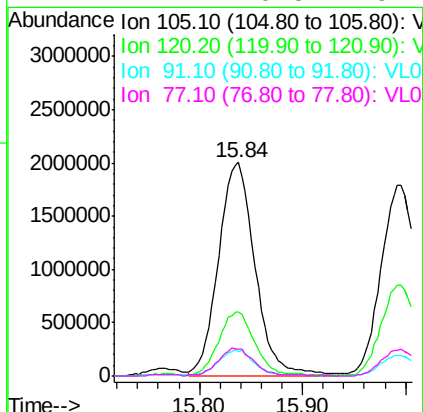
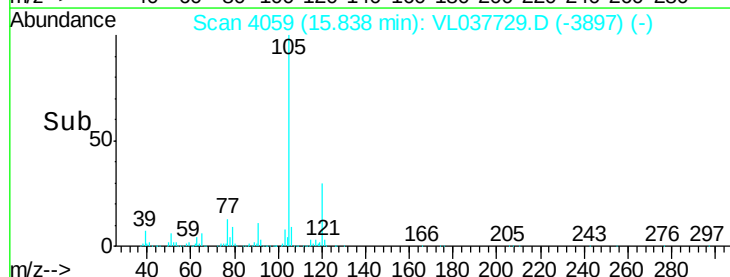
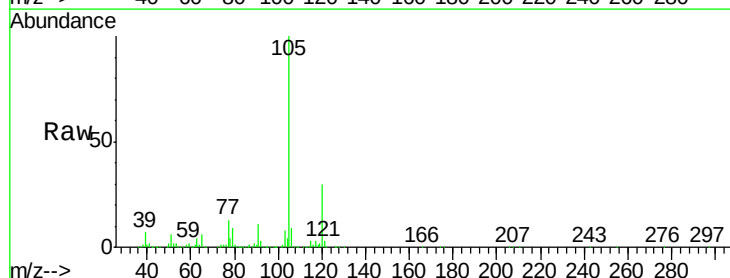
Ion Ratio Lower Upper

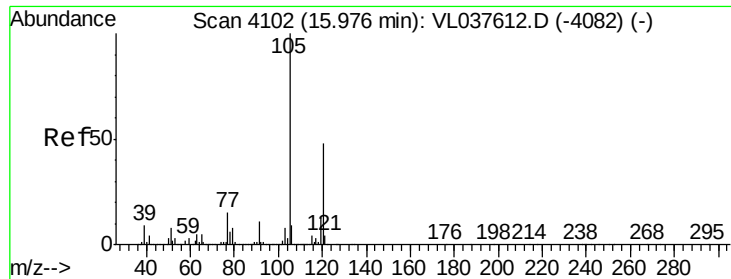
105 100

120 30.0 24.7 37.1

91 11.9 9.9 14.9

77 12.2 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 11.023 ppbv

RT: 15.99 min Scan# 4107

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4386753

Ion Ratio Lower Upper

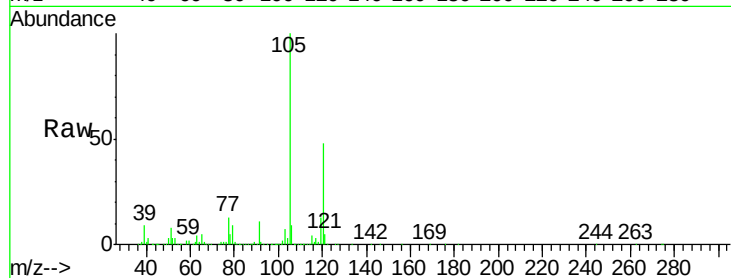
105 100

120 47.8 38.3 57.5

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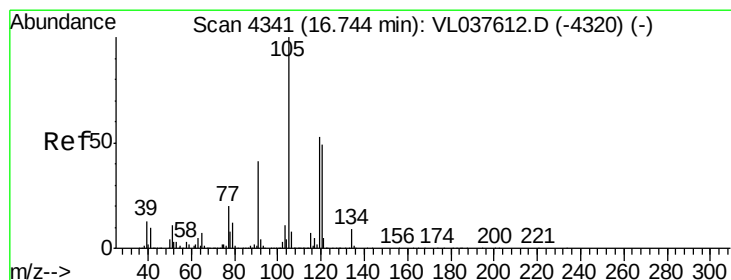
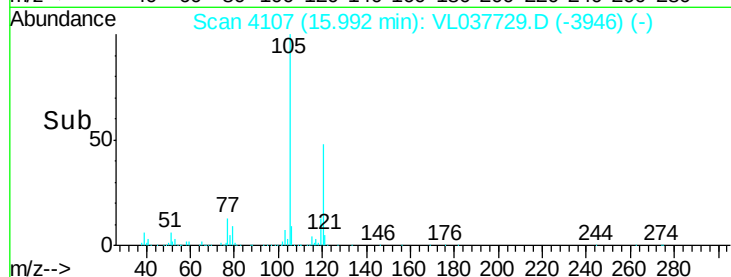
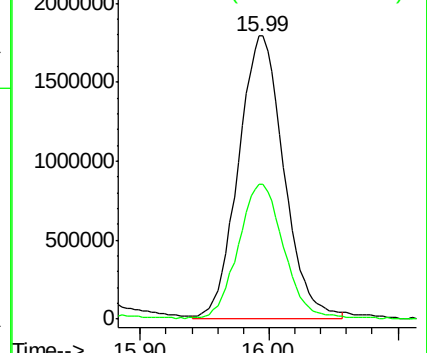
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.628 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Tgt Ion:105 Resp: 4454807

Ion Ratio Lower Upper

105 100

120 47.7 39.4 59.0

91 44.2 33.3 49.9

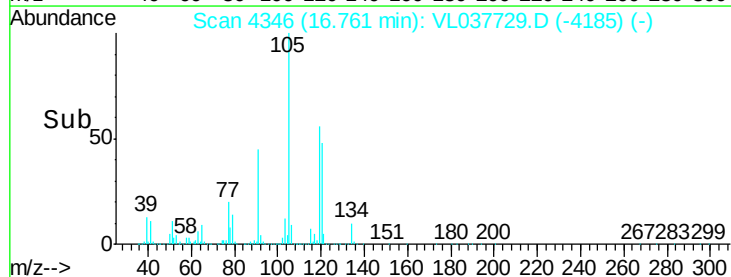
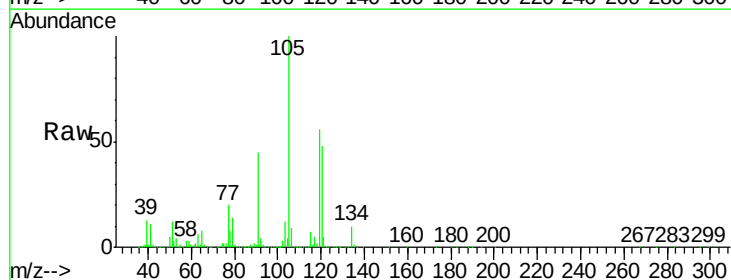
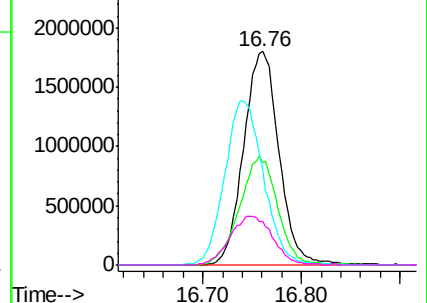
77 20.0 15.7 23.5

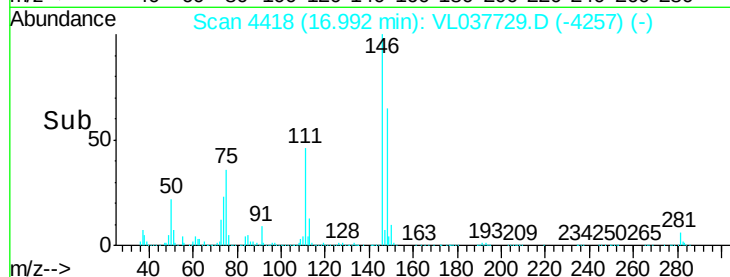
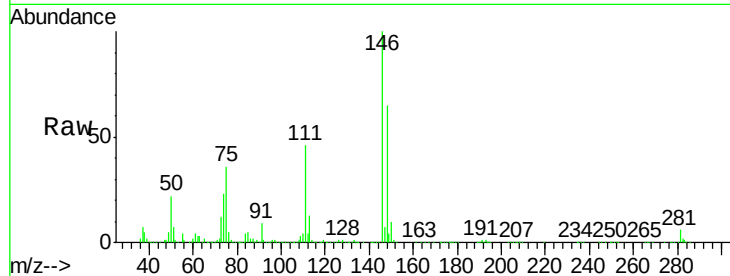
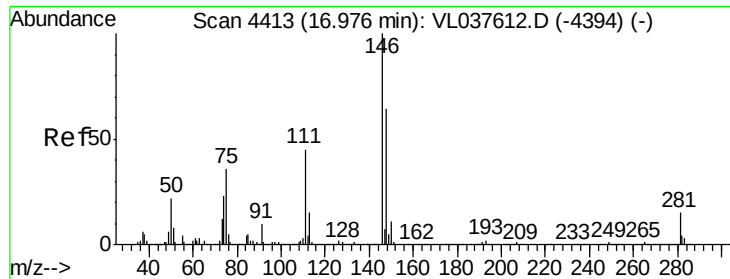
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75
1,3-Dichlorobenzene
Concen: 10.546 ppbv
RT: 16.99 min Scan# 4418
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

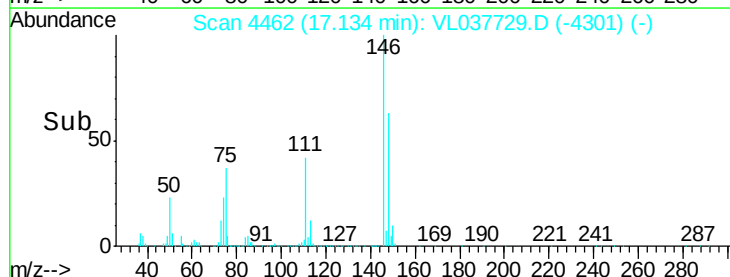
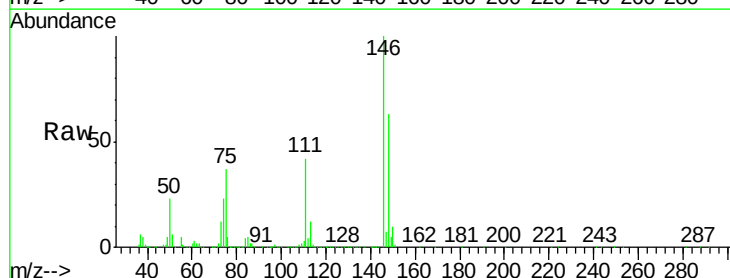
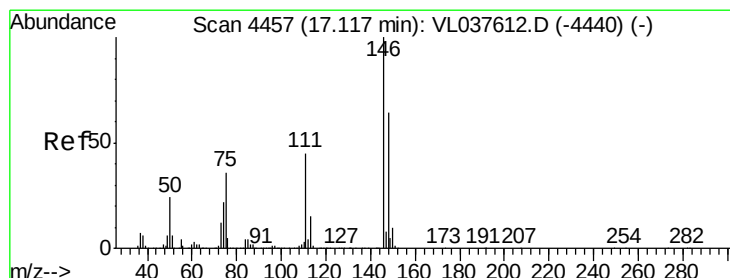
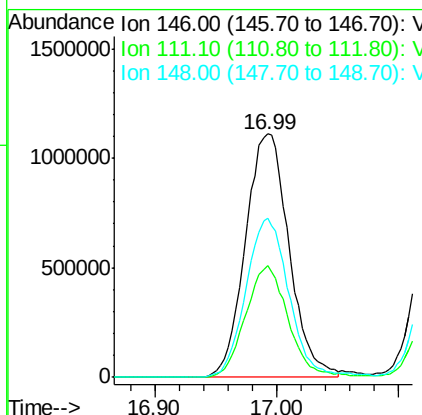
Tot Ion:146 Resp: 2746358
Ion Ratio Lower Upper
146 100
111 44.8 22.8 68.3
148 64.7 32.1 96.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

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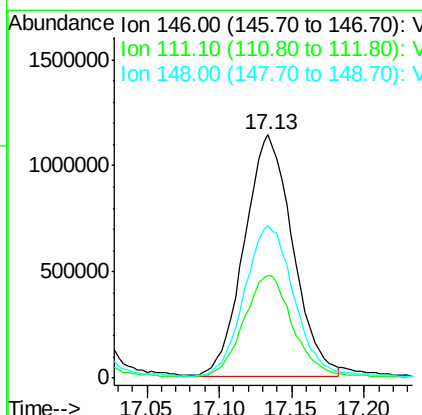
MMDadoda

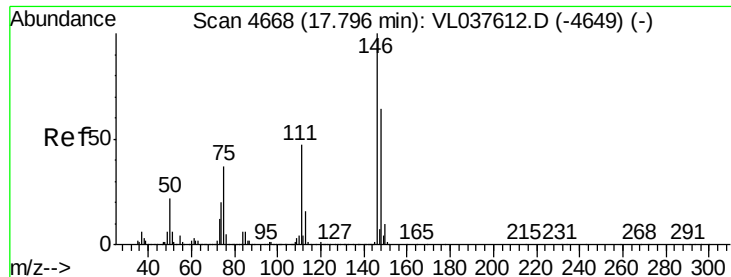
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#76
1,4-Dichlorobenzene
Concen: 10.339 ppbv
RT: 17.13 min Scan# 4462
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion:146 Resp: 2655731
Ion Ratio Lower Upper
146 100
111 44.5 22.5 67.5
148 66.6 32.9 98.6





#77

1,2-Dichlorobenzene

Concen: 10.649 ppbv

RT: 17.81 min Scan# 4673

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2630254

Ion Ratio Lower Upper

146 100

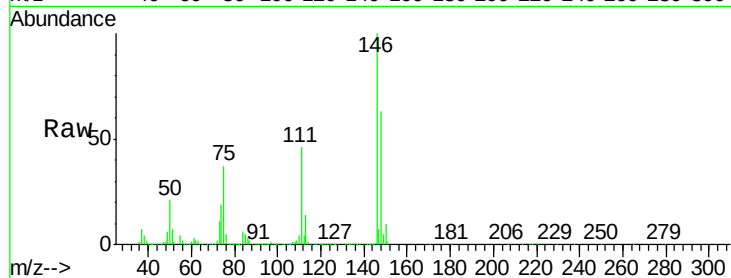
111 46.9 24.0 72.0

148 65.2 32.8 98.3

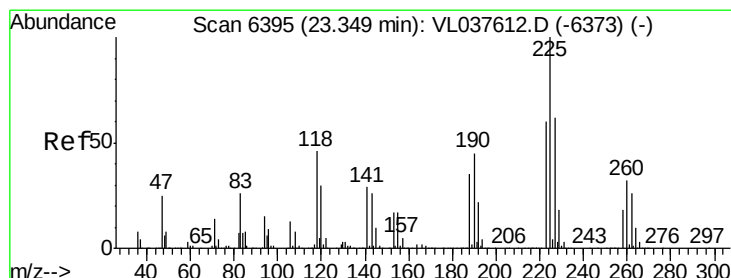
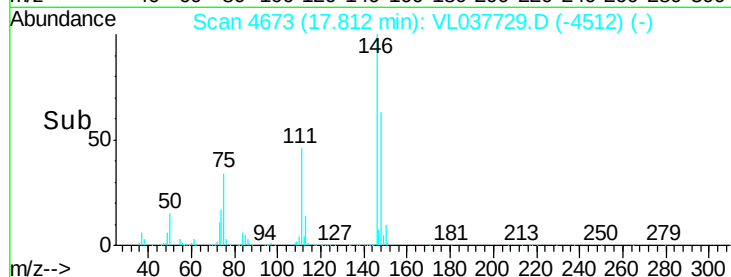
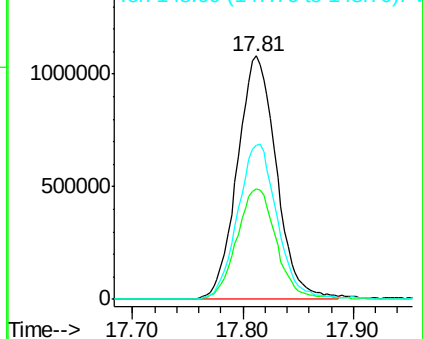
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.515 ppbv

RT: 23.37 min Scan# 6401

Delta R.T. 0.02 min

Lab File: VL037729.D

Acq: 29 Sep 2021 12:47

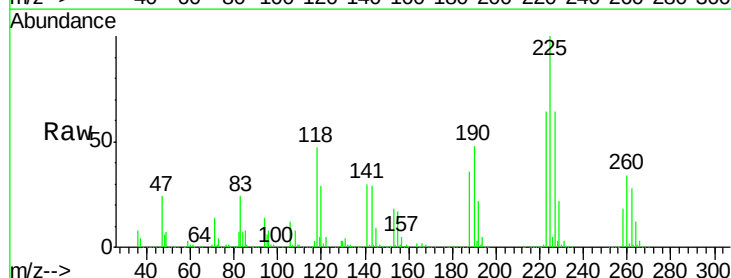
Tgt Ion:225 Resp: 1978068

Ion Ratio Lower Upper

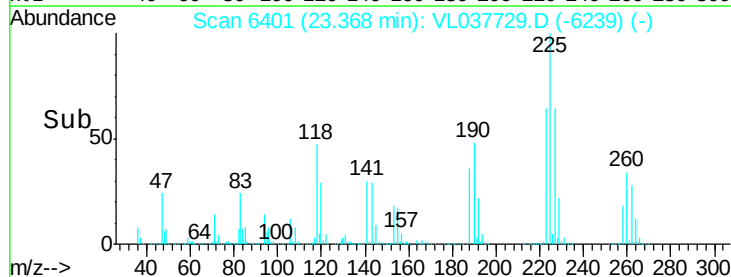
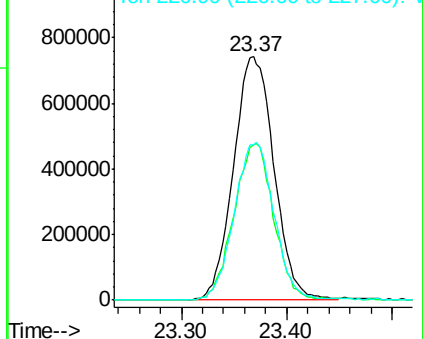
225 100

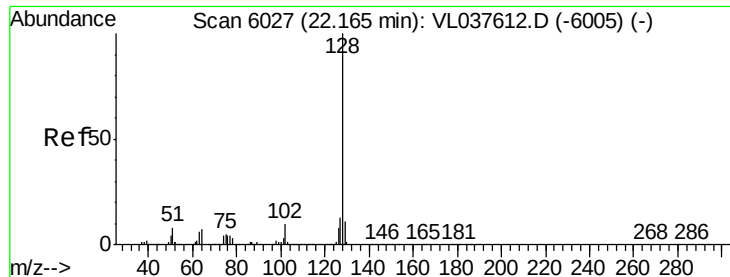
223 63.7 51.1 76.7

227 64.5 52.2 78.4



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: 12.831 ppbv
RT: 22.19 min Scan# 6035
Delta R.T. 0.03 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

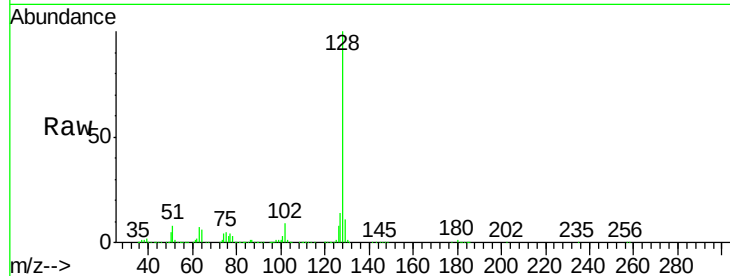
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:	128	Resp:	3302188
Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	16.0
129	10.9	8.6	12.8

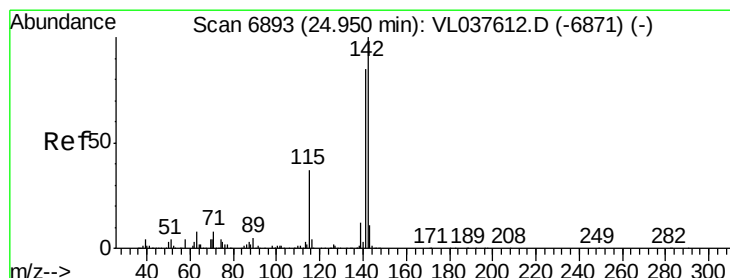
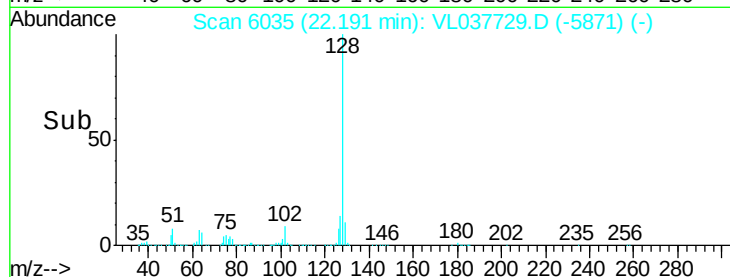
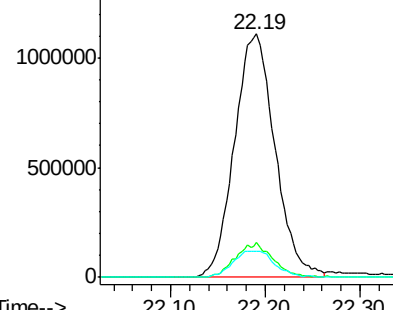
Manual Integrations
APPROVED

MMDadoda

10/1/2021 11:06:24 AM

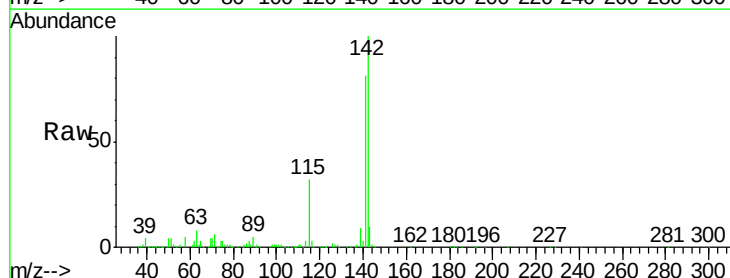


Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

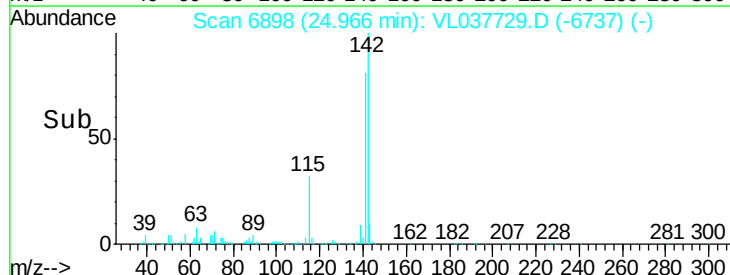
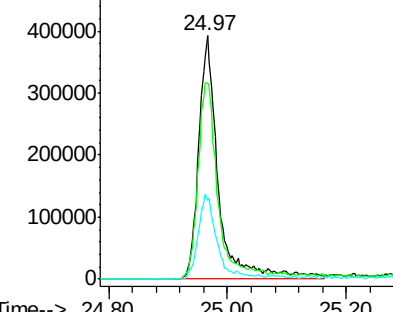


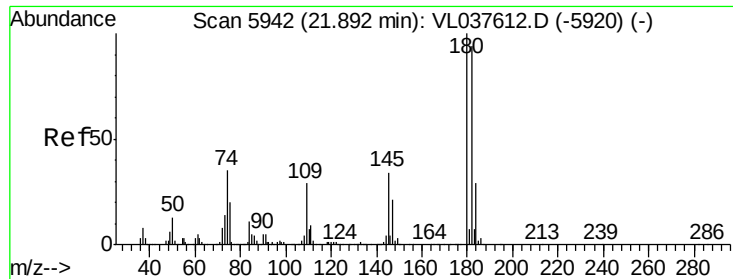
#80
Naphthalene, 2-methyl-
Concen: 15.407 ppbv
RT: 24.97 min Scan# 6898
Delta R.T. 0.02 min
Lab File: VL037729.D
Acq: 29 Sep 2021 12:47

Tgt Ion:	142	Resp:	906352
Ion	Ratio	Lower	Upper
142	100		
141	82.2	70.9	106.3
115	32.6	29.6	44.4



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: 12.028 ppbv
 RT: 21.92 min Scan# 5950
 Delta R.T. 0.03 min
 Lab File: VL037729.D
 Acq: 29 Sep 2021 12:47

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
180	100			
182	99.5	78.9	118.3	
184	31.1	24.7	37.1	

Manual Integrations
 APPROVED

MMDadoda

10/1/2021 11:06:24 AM

