

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036320.D
 Acq On : 10 Feb 2021 15:19
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:03 PM

Quant Time: Feb 10 15:56:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1491005	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3499542	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3260602	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2781443	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	2553805m	12.778	ppbv	
3) Chlorodifluoromethane	2.97	51	2382159	13.009	ppbv	100
4) Chloromethane	3.12	50	1179528	13.033	ppbv	96
5) Vinyl Chloride	3.24	62	1188127	13.873	ppbv	94
6) Bromomethane	3.46	94	659851	13.782	ppbv	94
7) Chloroethane	3.54	64	406735	13.791	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	2590006	13.376	ppbv	100
9) Propene	2.99	41	1099620	12.610	ppbv	99
10) Heptane	8.10	43	2778555	12.837	ppbv	99
11) Trichlorofluoromethane	3.93	101	2801948	13.790	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1766597	14.341	ppbv	100
13) Ethanol	3.59	45	158157	11.551	ppbv	92
14) Bromoethene	3.72	108	782571	13.951	ppbv	99
15) Acetone	3.84	43	2212312	12.115	ppbv	99
16) 1,3-Butadiene	3.31	39	1171254	13.166	ppbv	98
17) tert-Butyl alcohol	4.28	59	1603009	10.638	ppbv	99
18) 1,1-Dichloroethene	4.27	96	795881m	13.936	ppbv	
19) Isopropyl Alcohol	3.95	45	1086237	9.867	ppbv #	98
20) Methylene Chloride	4.33	84	694117	11.910	ppbv	99
21) Allyl Chloride	4.39	41	1401937	14.105	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	761957	14.440	ppbv	96
23) Vinyl Acetate	5.06	43	3057506	13.818	ppbv	98
24) 1,1-Dichloroethane	5.00	63	2084298	13.004	ppbv	100
25) Ethyl Acetate	5.66	43	4577312	12.485	ppbv	99
26) Hexane	5.67	57	1874072	12.278	ppbv	100
27) Carbon Disulfide	4.53	76	2053483	16.825	ppbv	98
28) Methyl tert-Butyl Ether	5.02	73	2591783	12.556	ppbv	100
29) Chloroform	5.74	83	3037864	13.900	ppbv	100
30) Cyclohexane	7.11	84	1597865	13.699	ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	1990661	13.645	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	2962551	14.016	ppbv	99
34) 2-Butanone	5.23	43	2979616	11.562	ppbv	100
35) Carbon Tetrachloride	7.00	117	3051345	13.800	ppbv	99
36) Benzene	6.88	78	3943912	12.300	ppbv	100
37) 1,2-Dichloroethane	6.29	62	2442559	12.659	ppbv	100
38) Trichloroethene	7.82	130	1337671	11.263	ppbv	97
39) 1,2-Dichloropropane	7.59	63	1613486	12.393	ppbv	96
40) 1,4-Dioxane	7.81	88	466161	9.898	ppbv #	1
41) Tetrahydrofuran	6.03	42	1829790	12.286	ppbv	99
42) Bromodichloromethane	7.78	83	3260062	13.443	ppbv	100
43) Methyl Methacrylate	8.00	69	1810357	13.285	ppbv	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036320.D
 Acq On : 10 Feb 2021 15:19
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

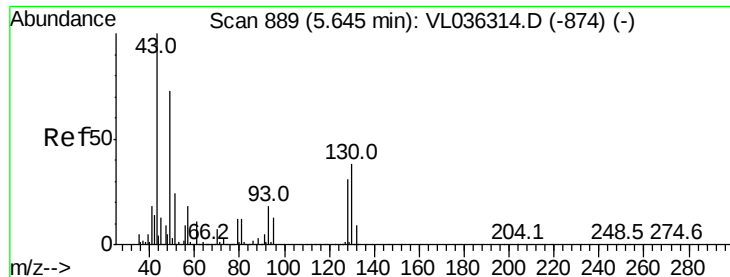
Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:03 PM

Quant Time: Feb 10 15:56:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10
 QLast Update : Wed Feb 10 13:51:24 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6526813	11.082	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	2036411	15.734	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	2363864	14.212	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1590104	12.767	ppbv	98
48) Dibromochloromethane	10.29	129	2622796	14.393	ppbv	98
49) Bromoform	13.03	173	2232107	14.675	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	4615289	12.011	ppbv	100
51) 2-Hexanone	10.12	43	3911306	12.902	ppbv #	98
52) Tetrachloroethene	11.21	164	1282926	10.857	ppbv	98
53) Toluene	9.79	91	4382703	12.219	ppbv	98
54) 1,2-Dibromoethane	10.59	107	2385607	12.921	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.11	131	1931636	13.275	ppbv	87
57) Chlorobenzene	12.13	112	3136775	12.262	ppbv	97
58) Ethyl Benzene	12.69	91	5960631	12.319	ppbv	98
59) m/p-Xylene	12.98	91	9913643m	23.845	ppbv	
60) o-Xylene	13.68	91	4628477	11.549	ppbv	99
61) Styrene	13.52	104	3432472	13.564	ppbv	99
62) Isopropylbenzene	14.65	105	6918402	11.611	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.66	83	3330405	11.161	ppbv	100
64) n-propylbenzene	15.55	120	1834060	12.528	ppbv	93
65) tert-Butylbenzene	16.73	119	5870434	11.627	ppbv	99
66) Benzyl Chloride	16.98	91	2350176	18.220	ppbv	99
67) sec-Butylbenzene	17.28	105	8351156	11.143	ppbv	98
69) p-Isopropyltoluene	17.64	119	6918008	11.639	ppbv	99
70) n-Butylbenzene	18.54	91	7268971	11.477	ppbv	98
71) 2-Chlorotoluene	15.44	91	5517366	11.781	ppbv	98
72) 4-Ethyltoluene	15.82	105	5586439	12.353	ppbv	98
73) 1,3,5-Trimethylbenzene	15.99	105	5192328	12.044	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	5137126	11.617	ppbv	97
75) 1,3-Dichlorobenzene	16.98	146	2840700	11.977	ppbv	98
76) 1,4-Dichlorobenzene	17.12	146	2980900m	12.722	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	2804202	12.105	ppbv	99
78) Hexachloro-1,3-Butadiene	23.36	225	2016304	10.882	ppbv	99
79) Naphthalene	22.18	128	4005812	15.497	ppbv #	96
80) Naphthalene, 2-methyl-	24.97	142	977068	17.715	ppbv	94
81) 1,2,4-Trichlorobenzene	21.91	180	2115466	14.018	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 1491005

Ion Ratio Lower Upper

49 100

128 42.0 20.8 62.5

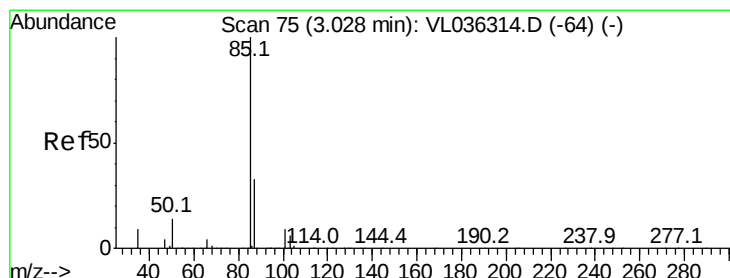
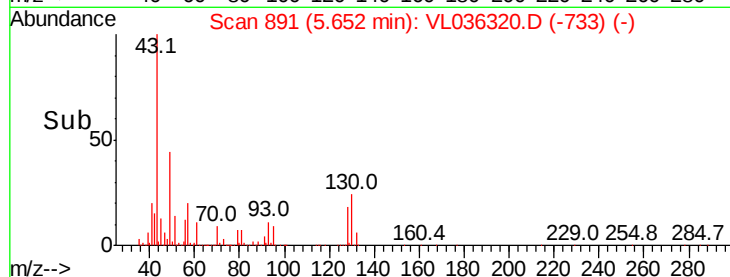
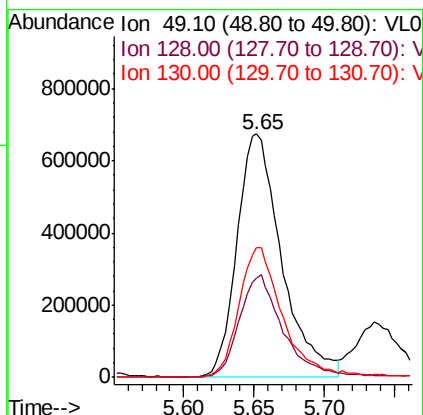
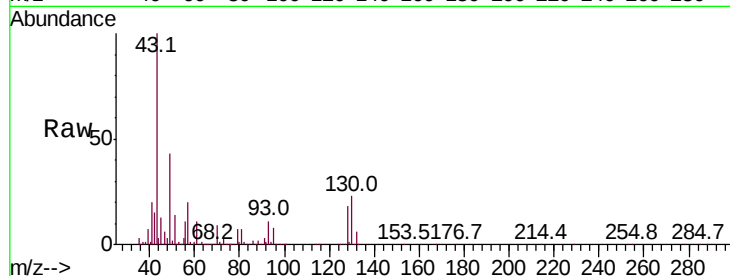
130 53.4 26.7 80.1

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:42:03 PM



#2

Dichlorodifluoromethane

Concen: 12.778 ppbv m

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL036320.D

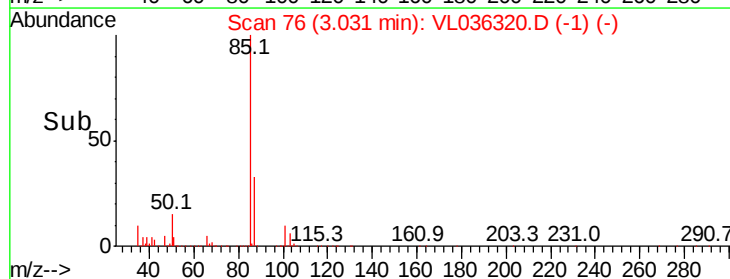
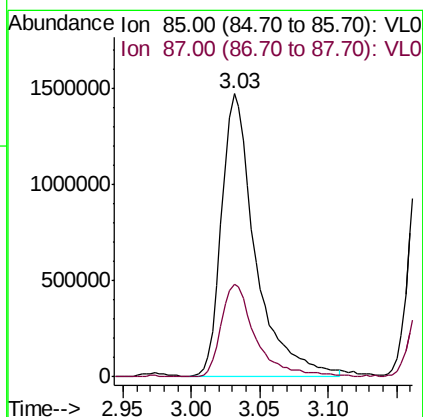
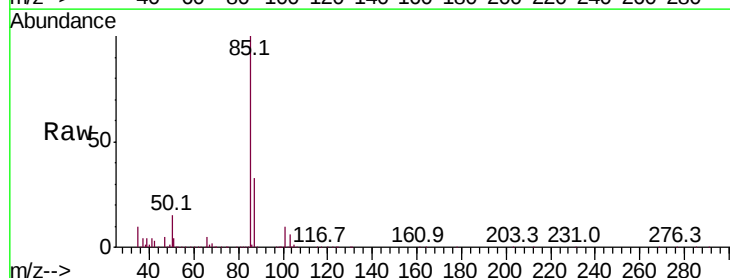
Acq: 10 Feb 2021 15:19

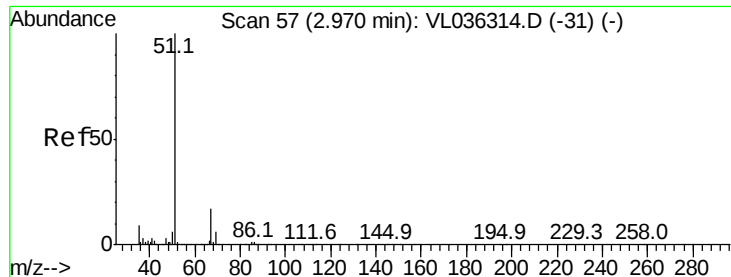
Tgt Ion: 85 Resp: 2553805

Ion Ratio Lower Upper

85 100

87 32.8 26.5 39.7





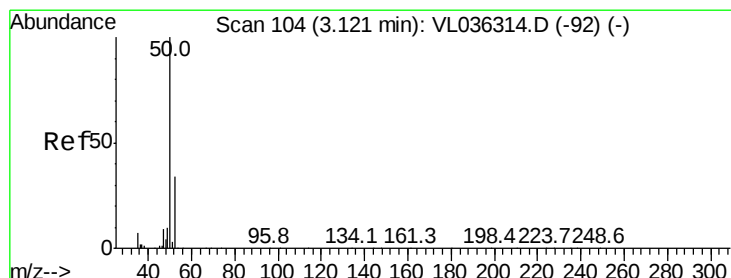
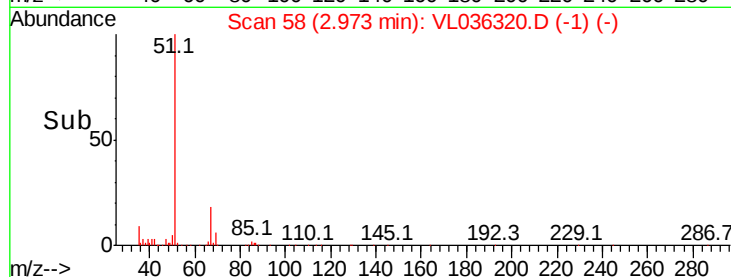
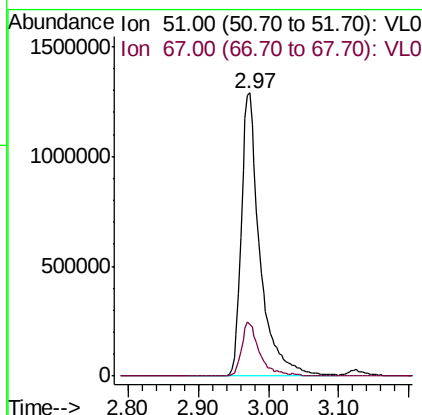
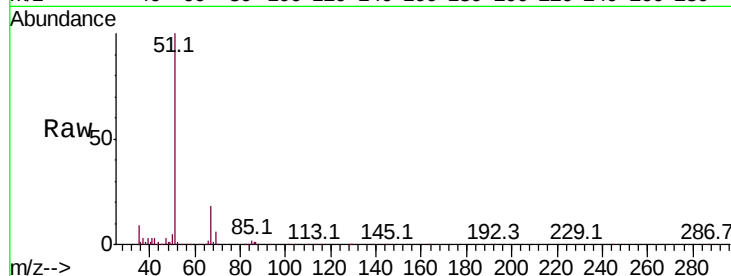
#3
Chlorodifluoromethane
Concen: 13.009 ppbv
RT: 2.97 min Scan# 58
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 51 Resp: 2382159
Ion Ratio Lower Upper
51 100
67 18.6 14.7 22.1

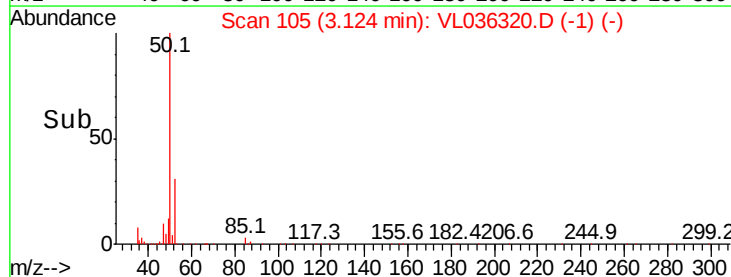
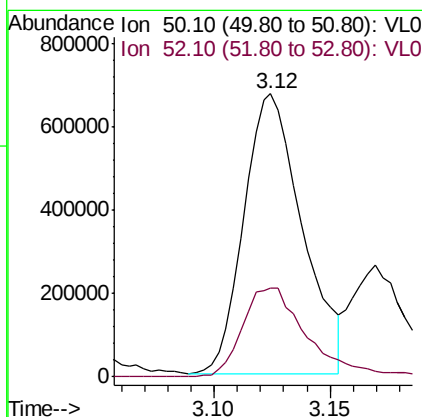
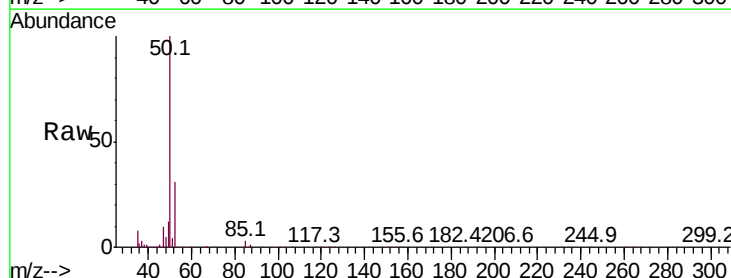
Manual Integrations
APPROVED

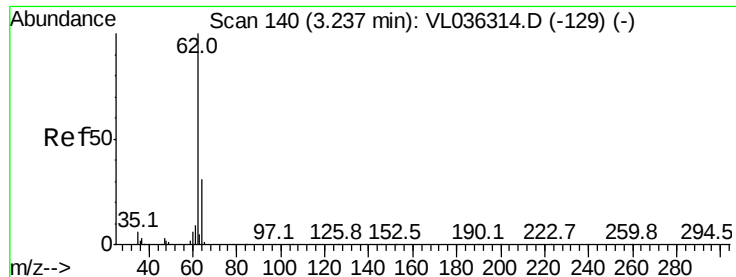
MMDadoda
2/12/2021 1:42:03 PM



#4
Chloromethane
Concen: 13.033 ppbv
RT: 3.12 min Scan# 105
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 50 Resp: 1179528
Ion Ratio Lower Upper
50 100
52 31.6 27.0 40.4





#5

Vinyl Chloride

Concen: 13.873 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1188127

Ion Ratio Lower Upper

62 100

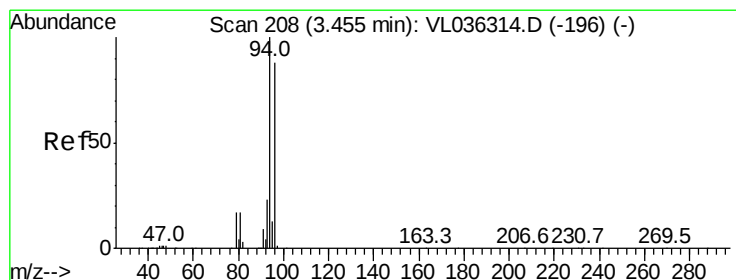
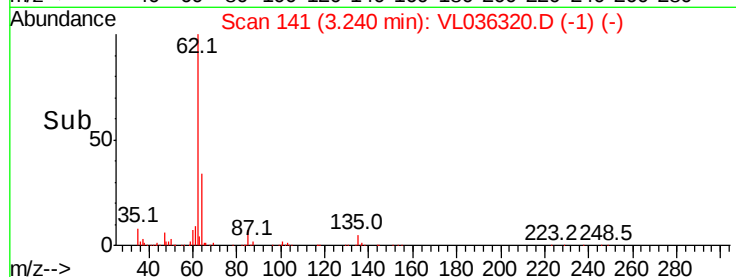
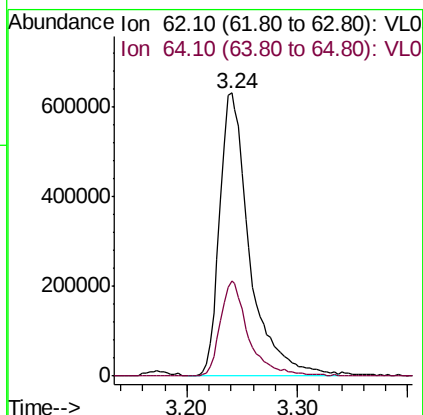
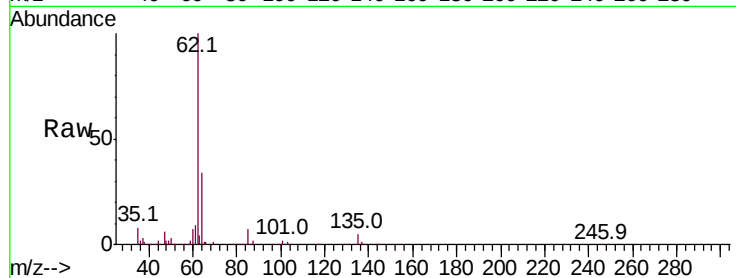
64 33.8 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:42:03 PM



#6

Bromomethane

Concen: 13.782 ppbv

RT: 3.46 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL036320.D

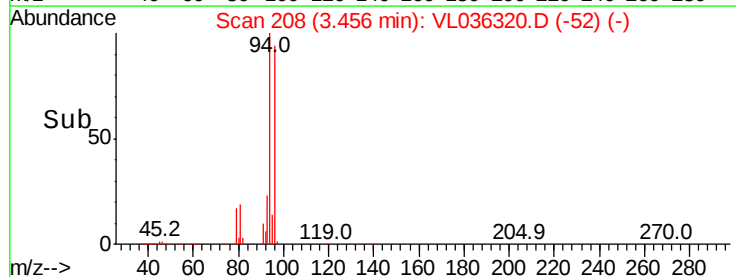
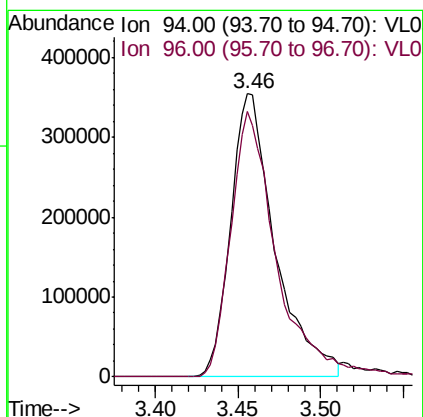
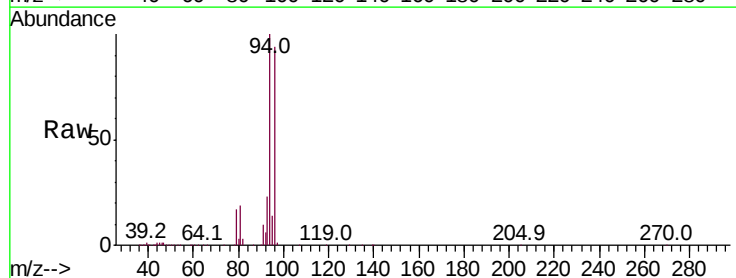
Acq: 10 Feb 2021 15:19

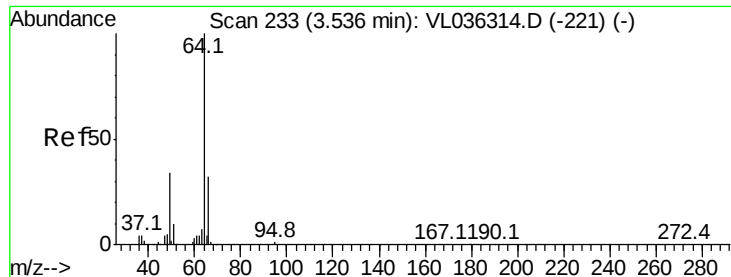
Tgt Ion: 94 Resp: 659851

Ion Ratio Lower Upper

94 100

96 93.9 70.8 106.2





#7

Chloroethane

Concen: 13.791 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 406735

Ion Ratio Lower Upper

64 100

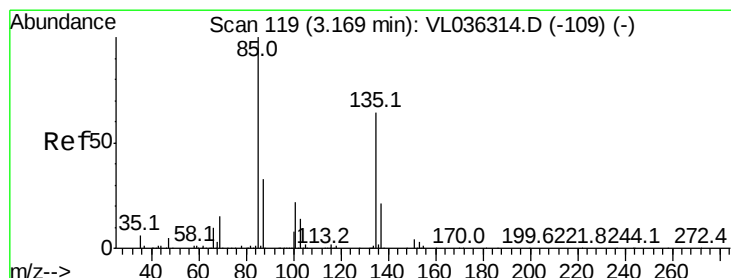
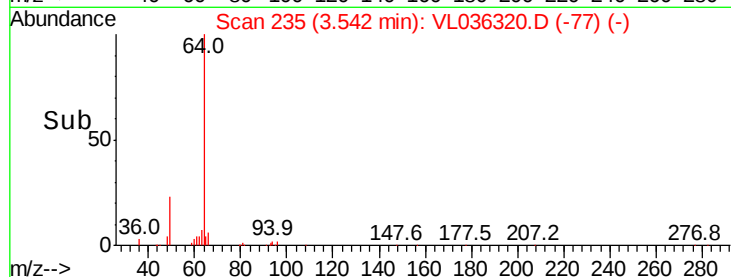
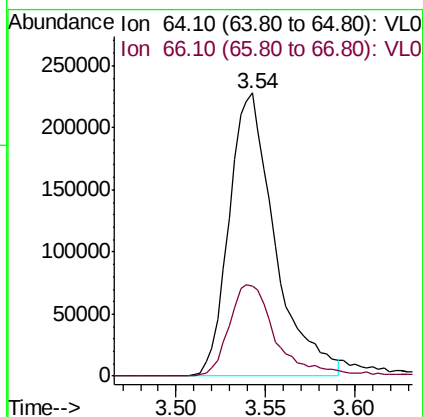
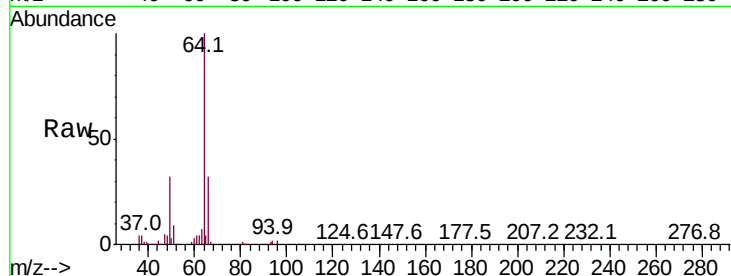
66 31.7 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:42:03 PM



#8

Dichlorotetrafluoroethane

Concen: 13.376 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL036320.D

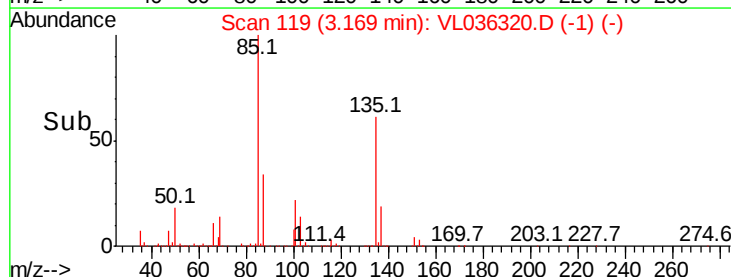
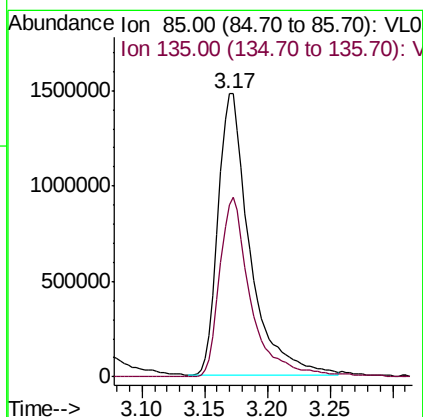
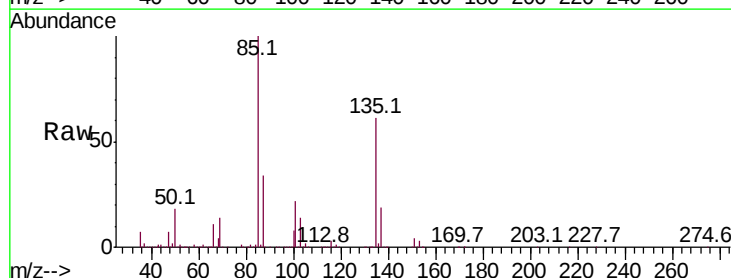
Acq: 10 Feb 2021 15:19

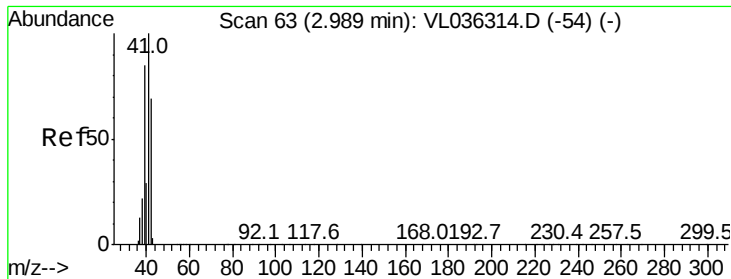
Tgt Ion: 85 Resp: 2590006

Ion Ratio Lower Upper

85 100

135 63.7 51.1 76.7





#9

Propene

Concen: 12.610 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1099620

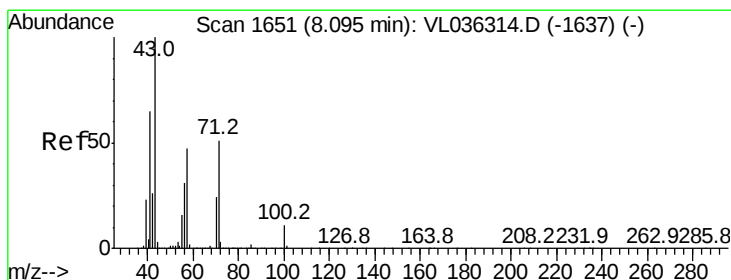
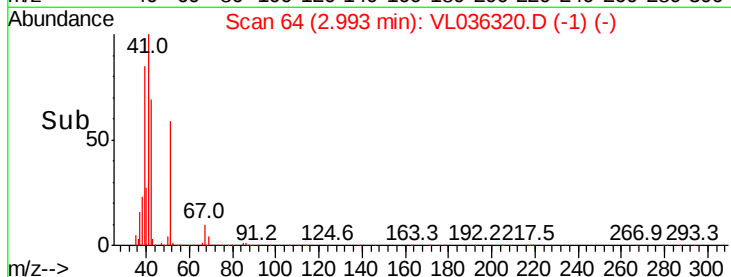
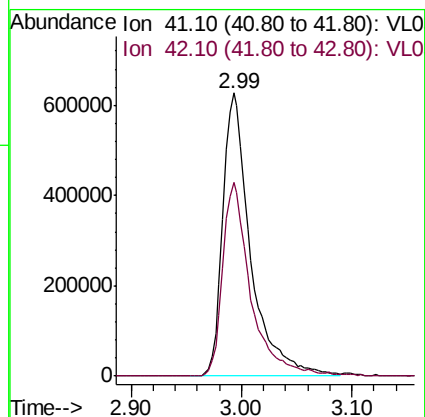
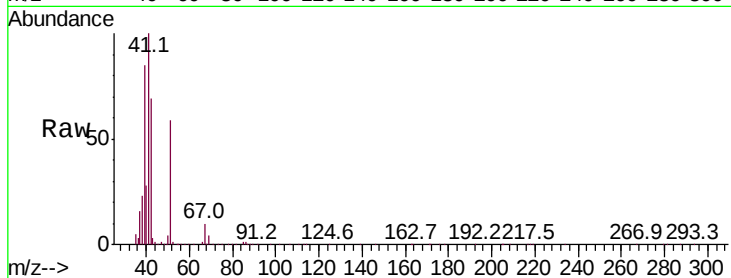
Ion Ratio Lower Upper

41 100

42 69.4 56.2 84.2

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#10

Heptane

Concen: 12.837 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. 0.01 min

Lab File: VL036320.D

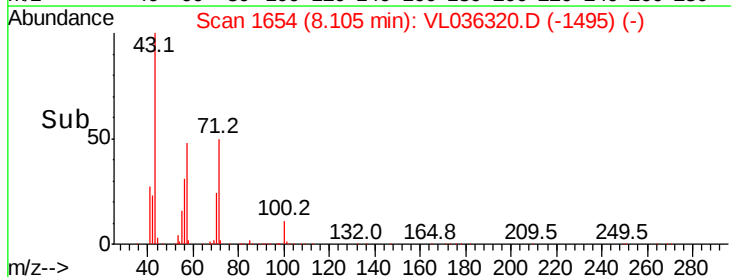
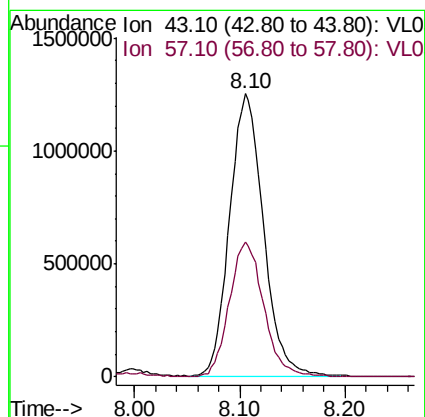
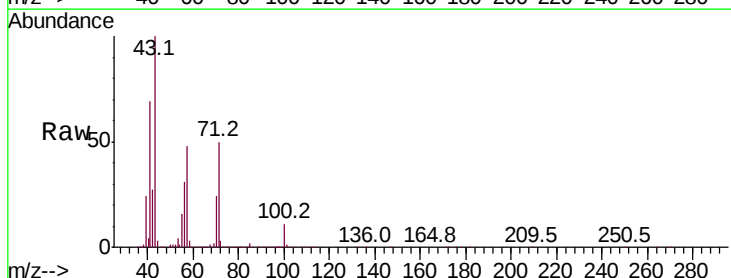
Acq: 10 Feb 2021 15:19

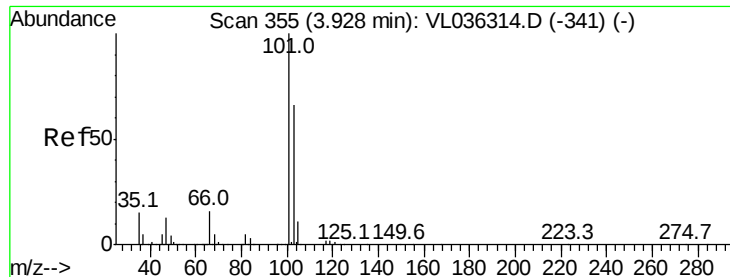
Tgt Ion: 43 Resp: 2778555

Ion Ratio Lower Upper

43 100

57 48.5 39.4 59.2





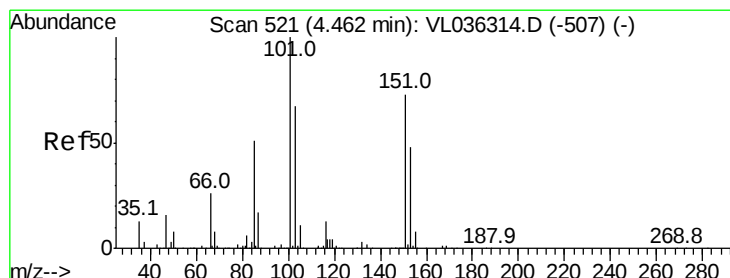
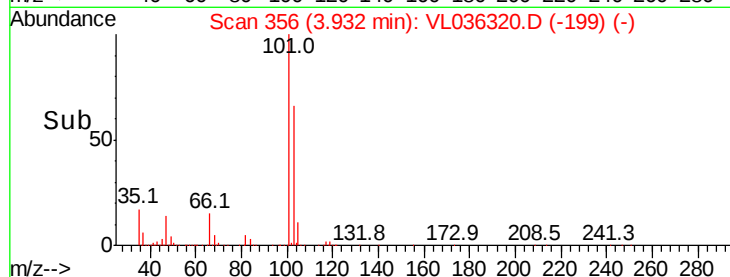
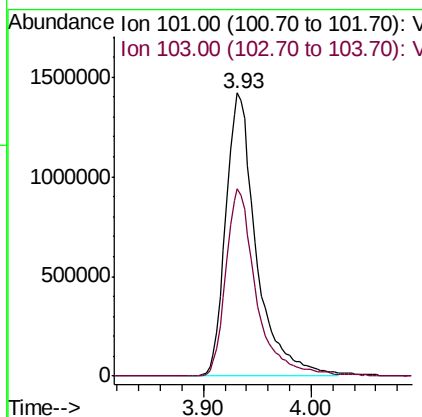
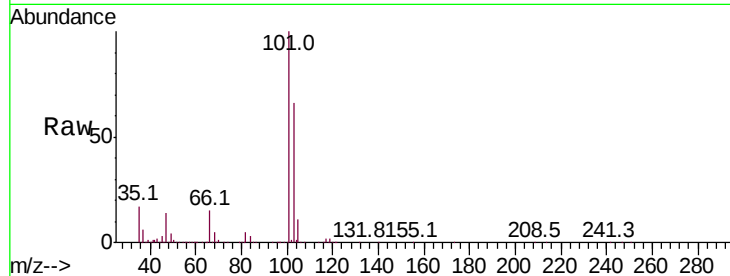
#11
 Trichlorofluoromethane
 Concen: 13.790 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 2801948
 Ion Ratio Lower Upper
 101 100
 103 66.2 52.9 79.3

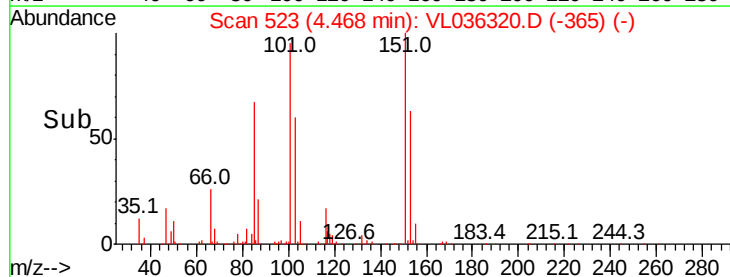
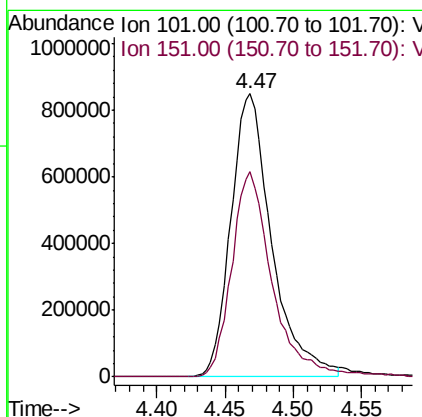
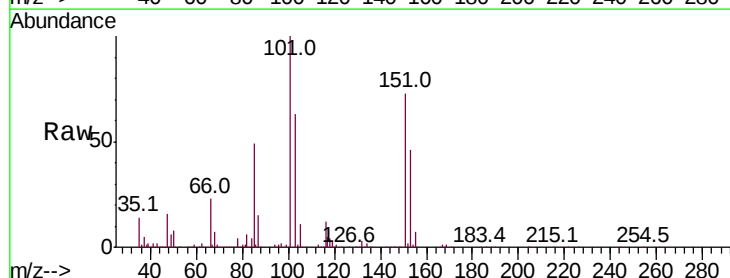
Manual Integrations
 APPROVED

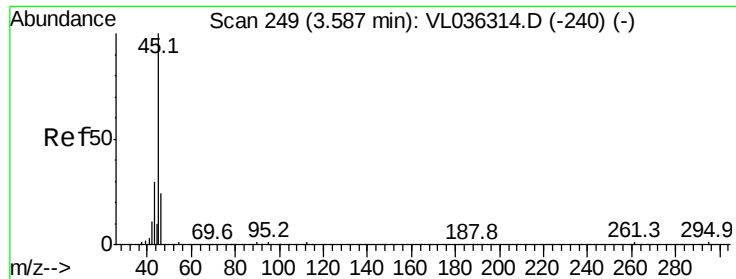
MMDadoda
 2/12/2021 1:42:03 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.341 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Tgt Ion:101 Resp: 1766597
 Ion Ratio Lower Upper
 101 100
 151 72.5 58.2 87.4





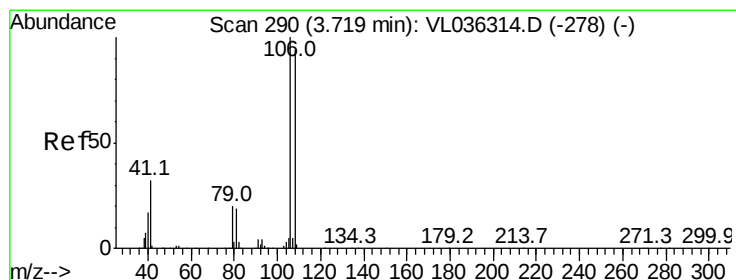
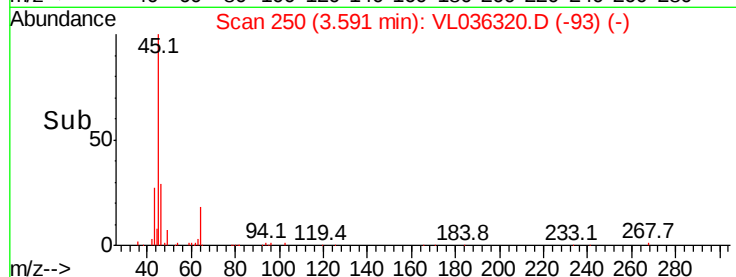
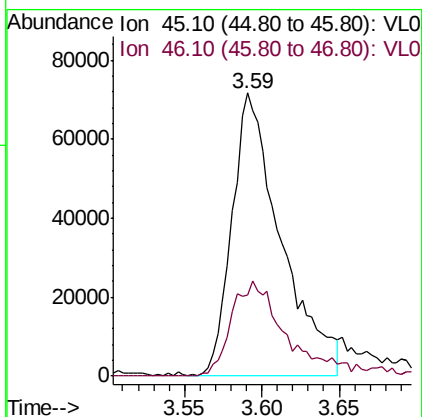
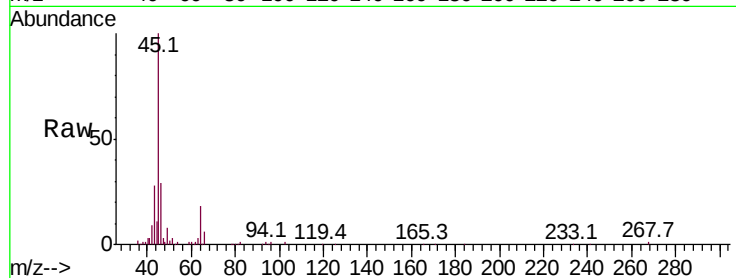
#13
Ethanol
Concen: 11.551 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.8	17.7	70.7

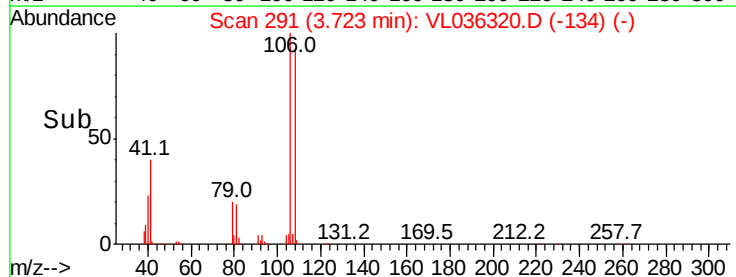
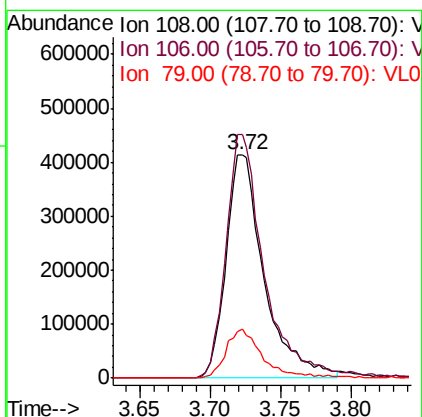
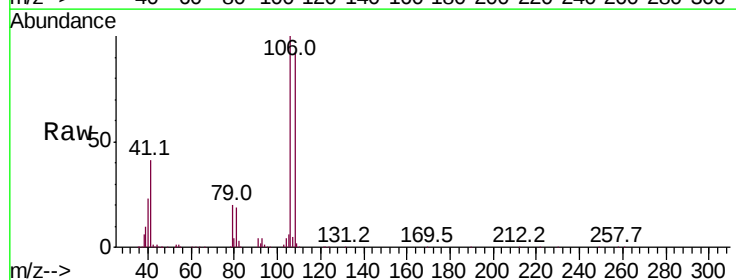
Manual Integrations
APPROVED

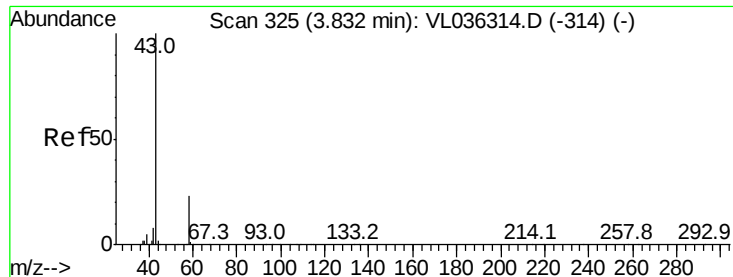
MMDadoda
2/12/2021 1:42:03 PM



#14
Bromoethene
Concen: 13.951 ppbv
RT: 3.72 min Scan# 291
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
108	100		
106	111.1	89.8	134.8
79	21.9	17.1	25.7





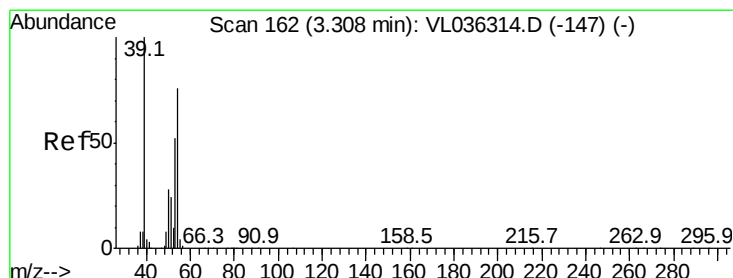
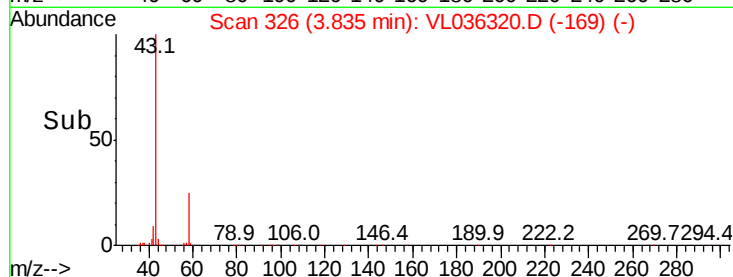
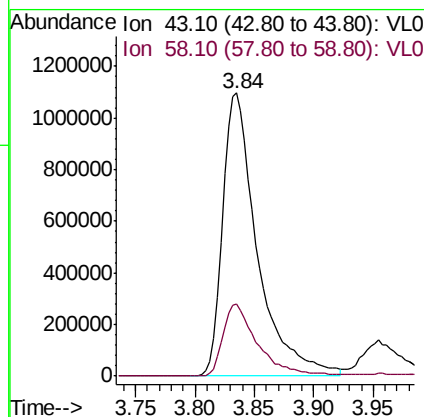
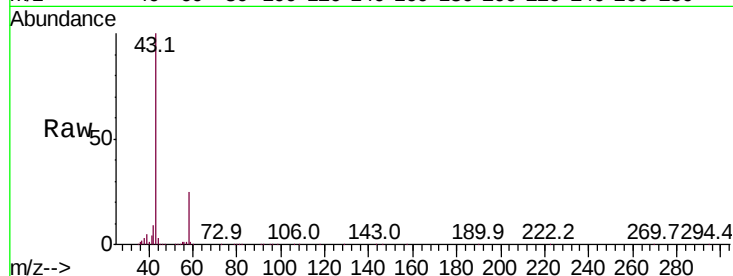
#15
Acetone
Concen: 12.115 ppbv
RT: 3.84 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 2212312
Ion Ratio Lower Upper
43 100
58 25.7 20.3 30.5

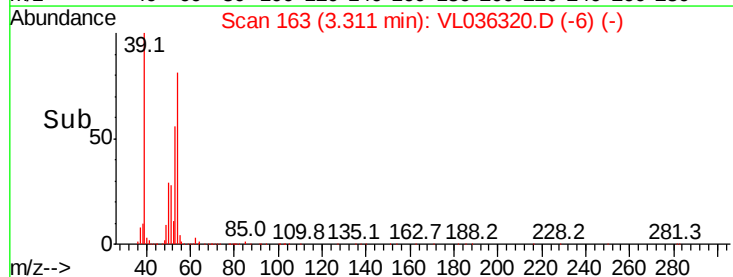
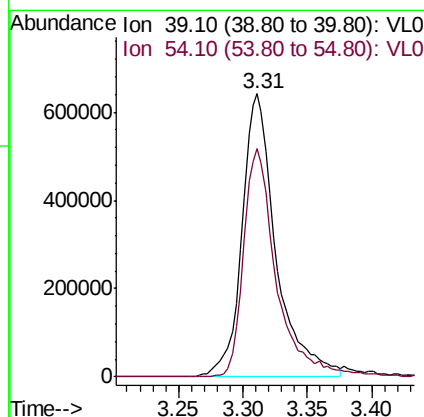
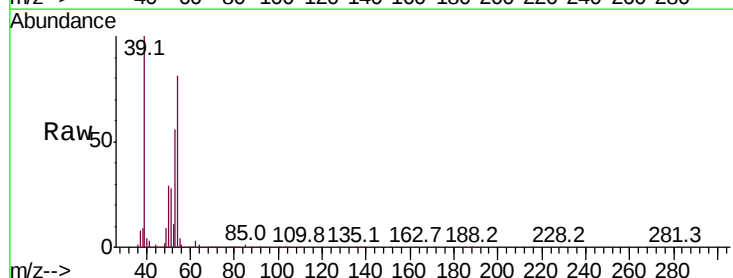
Manual Integrations
APPROVED

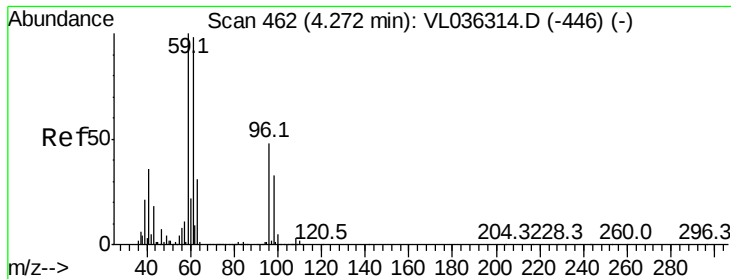
MMDadoda
2/12/2021 1:42:03 PM



#16
1,3-Butadiene
Concen: 13.166 ppbv
RT: 3.31 min Scan# 163
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 39 Resp: 1171254
Ion Ratio Lower Upper
39 100
54 78.6 64.4 96.6





#17

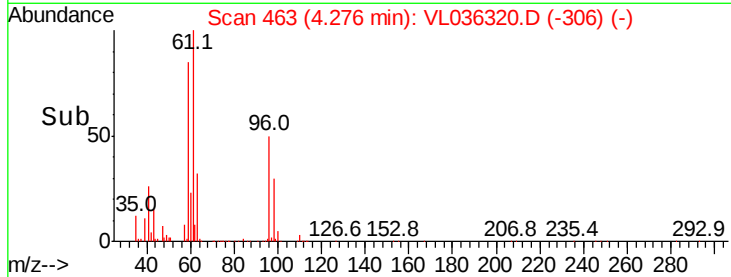
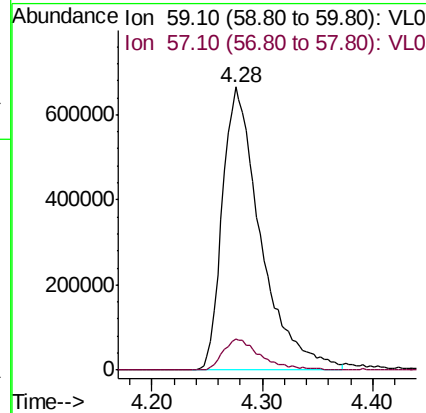
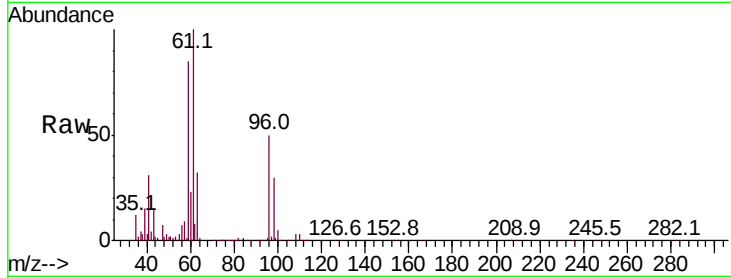
tert-Butyl alcohol
Concen: 10.638 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1603009
Ion Ratio Lower Upper
59 100
57 11.4 9.0 13.4

Manual Integrations
APPROVED

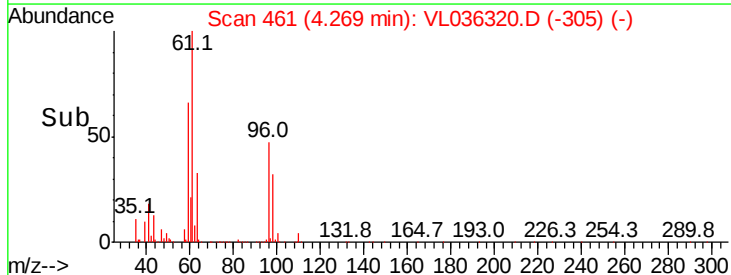
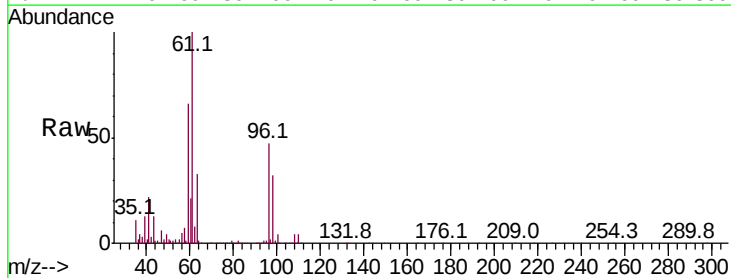
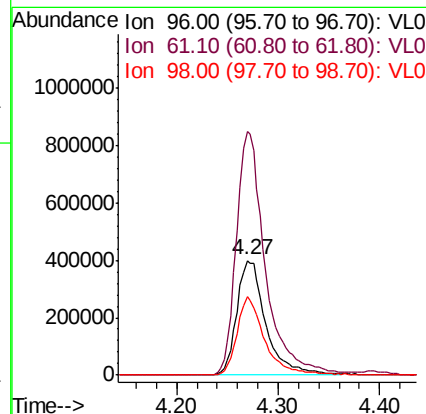
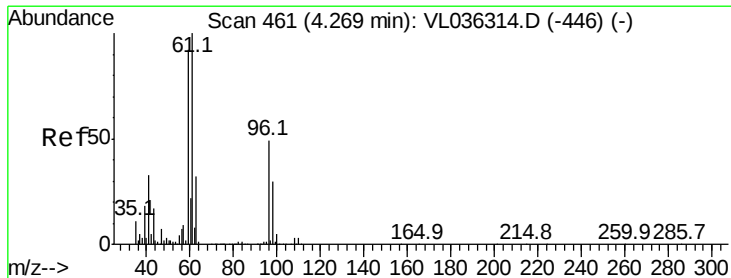
MMDadoda
2/12/2021 1:42:03 PM

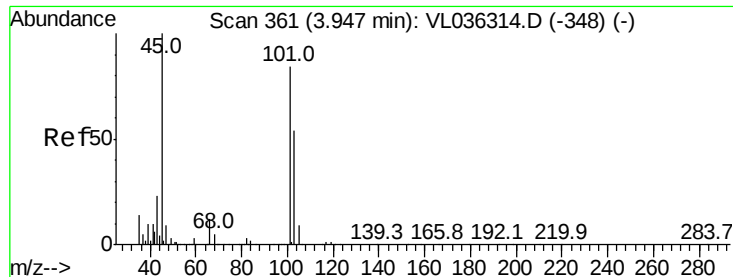


#18

1,1-Dichloroethene
Concen: 13.936 ppbv m
RT: 4.27 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 96 Resp: 795881
Ion Ratio Lower Upper
96 100
61 213.0 162.5 243.7
98 69.1 48.5 72.7





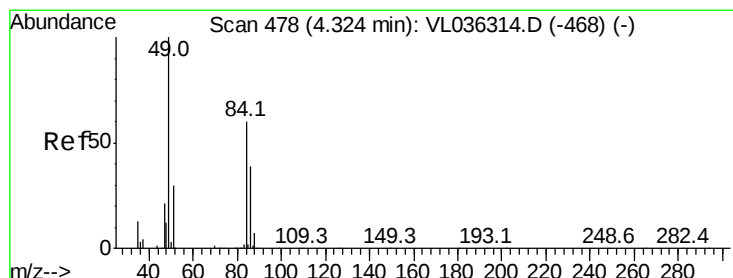
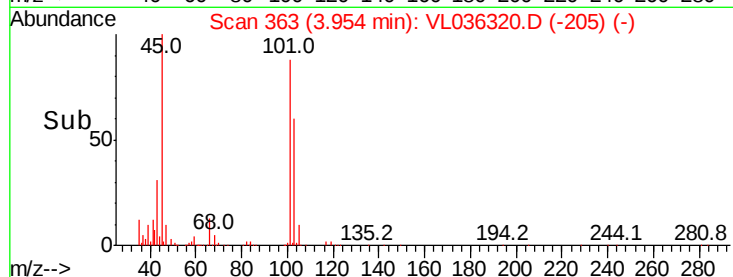
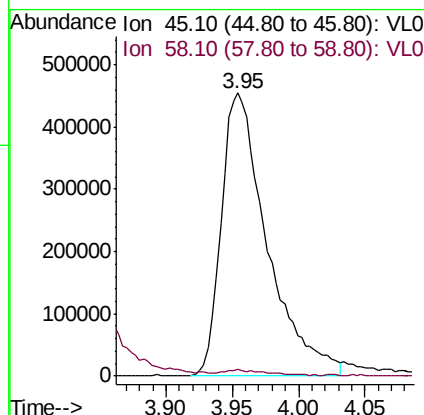
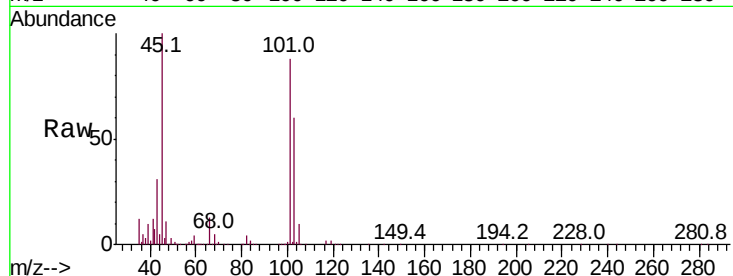
#19
Isopropyl Alcohol
Concen: 9.867 ppbv
RT: 3.95 min Scan# 363
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 45 Resp: 1086237
Ion Ratio Lower Upper
45 100
58 1.6 1.9 2.9#

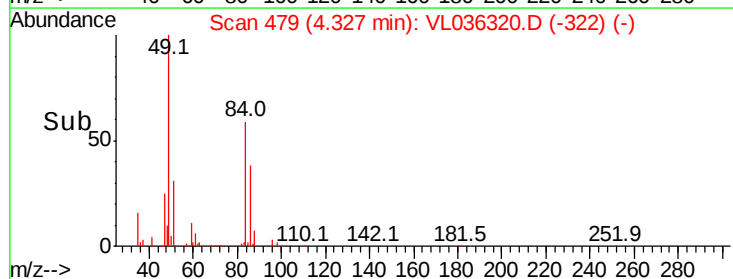
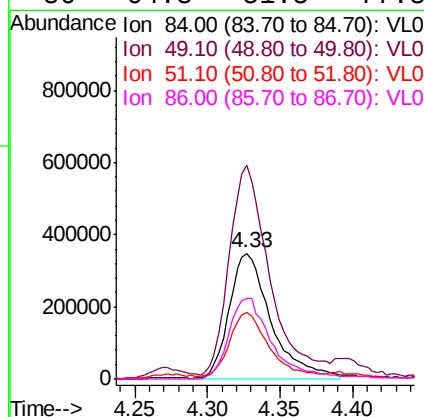
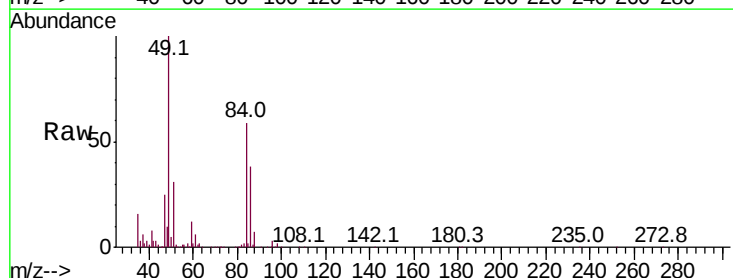
Manual Integrations
APPROVED

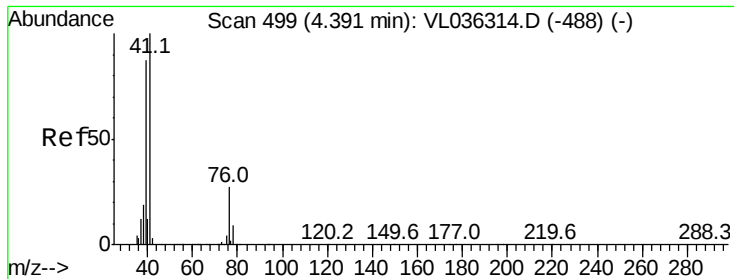
MMDadoda
2/12/2021 1:42:03 PM



#20
Methylene Chloride
Concen: 11.910 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 84 Resp: 694117
Ion Ratio Lower Upper
84 100
49 166.6 133.8 200.8
51 50.2 41.4 62.0
86 64.8 51.5 77.3





#21

Allvl Chloride

Concen: 14.105 ppbv

RT: 4.39 min Scan# 500

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

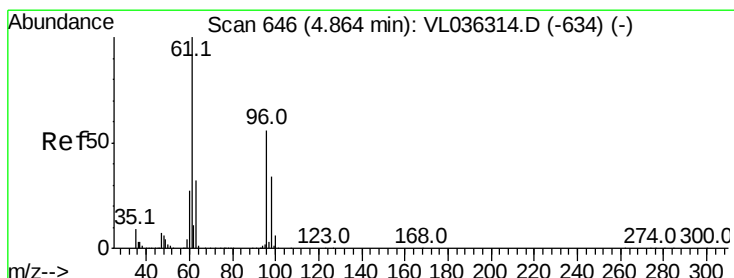
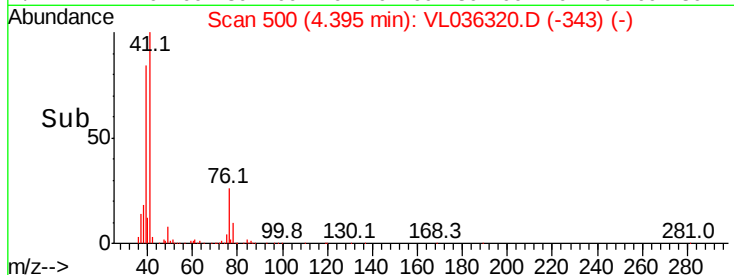
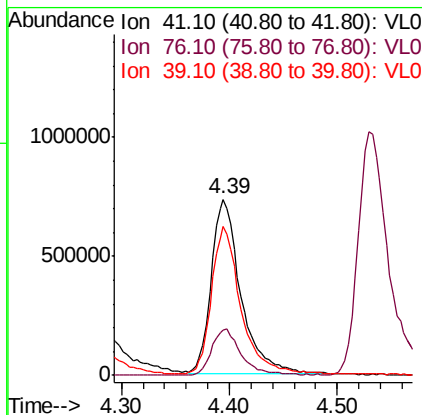
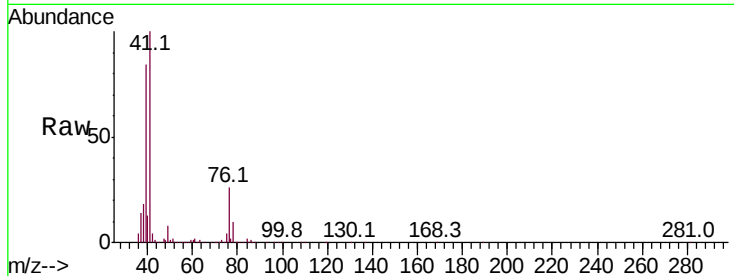
ClientSampleId :

VSTDIC015

Tot Ion:	41	Resp:	1401937
Ion	Ratio	Lower	Upper
41	100		
76	26.6	22.0	33.0
39	84.2	70.2	105.2

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#22

trans-1,2-Dichloroethene

Concen: 14.440 ppbv

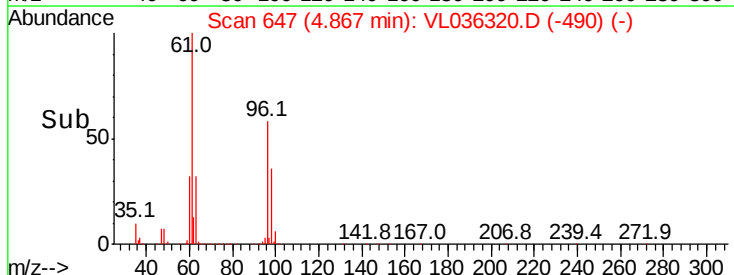
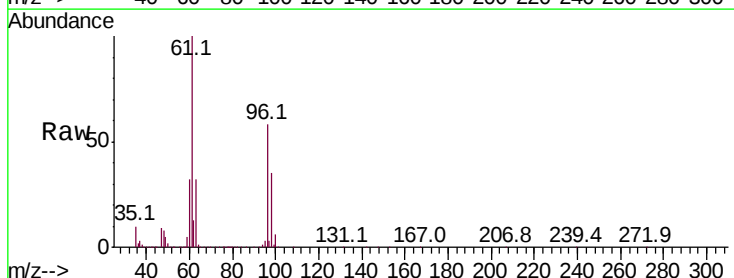
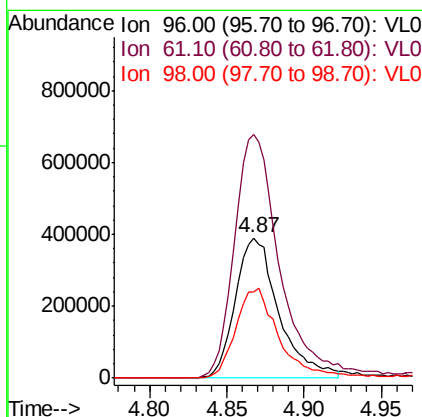
RT: 4.87 min Scan# 647

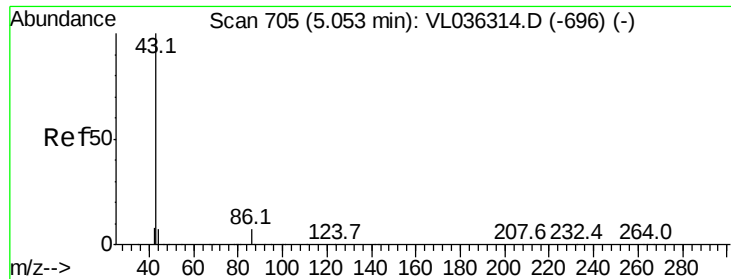
Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion:	96	Resp:	761957
Ion	Ratio	Lower	Upper
96	100		
61	173.3	143.7	215.5
98	61.4	48.5	72.7





#23

Vinyl Acetate

Concen: 13.818 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L

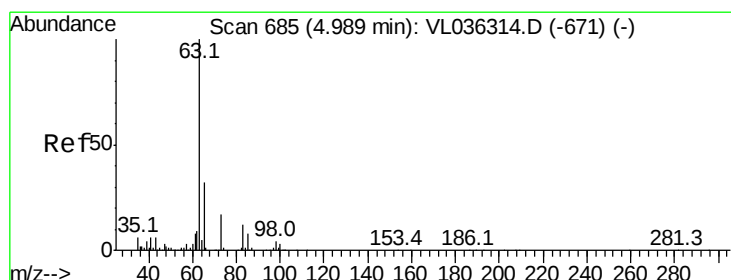
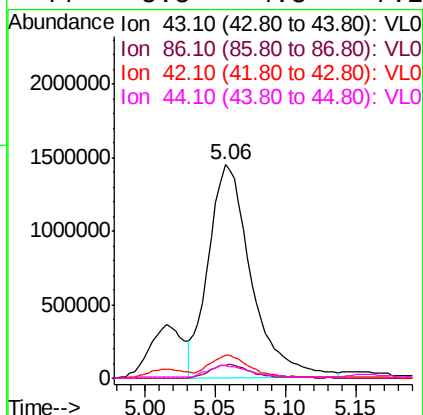
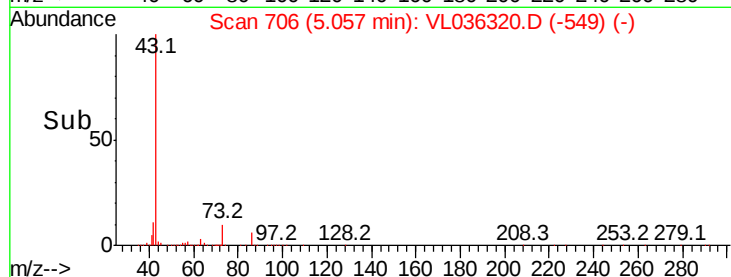
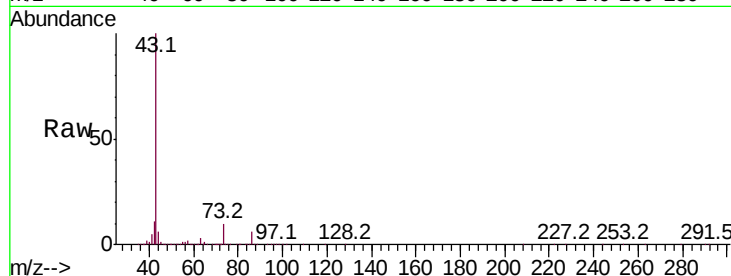
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3057506

Ion	Ratio	Lower	Upper
43	100		
86	6.1	4.8	7.2
42	10.8	7.4	11.0
44	5.5	4.8	7.2

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#24

1,1-Dichloroethane

Concen: 13.004 ppbv

RT: 5.00 min Scan# 687

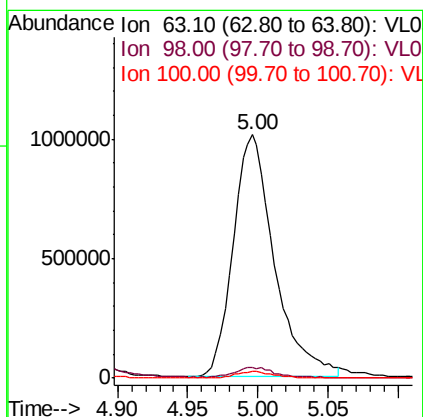
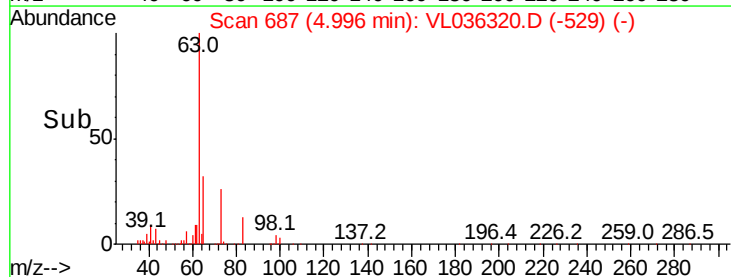
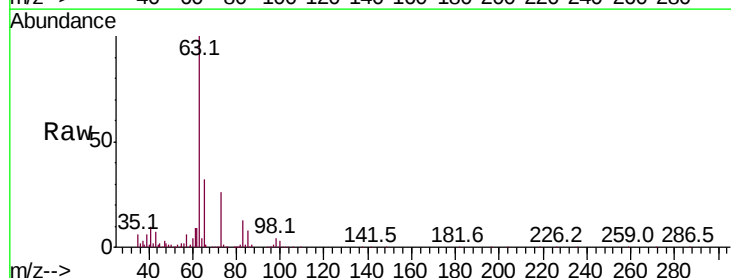
Delta R.T. 0.01 min

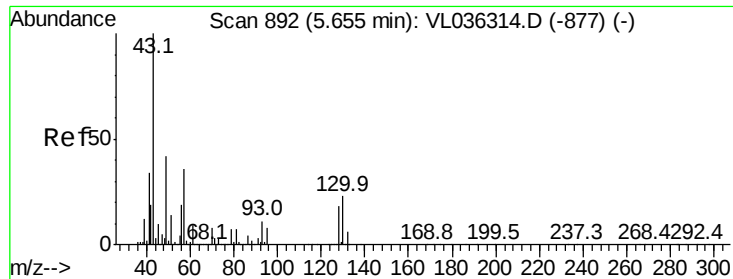
Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion: 63 Resp: 2084298

Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.0	6.0
100	2.7	1.5	4.4





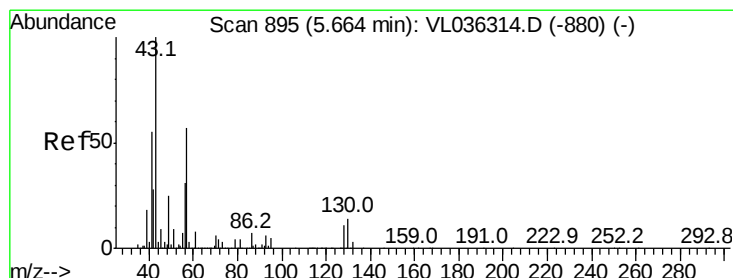
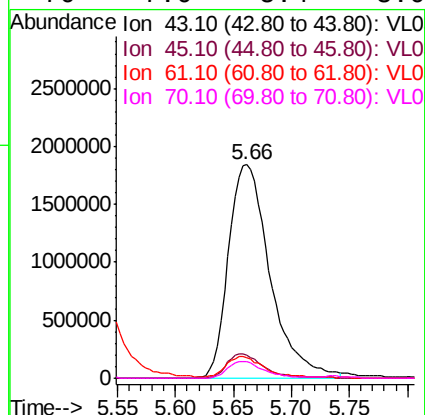
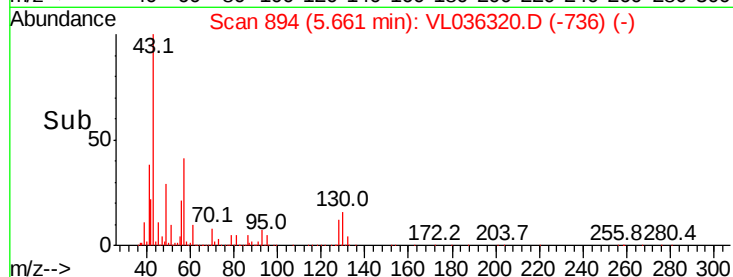
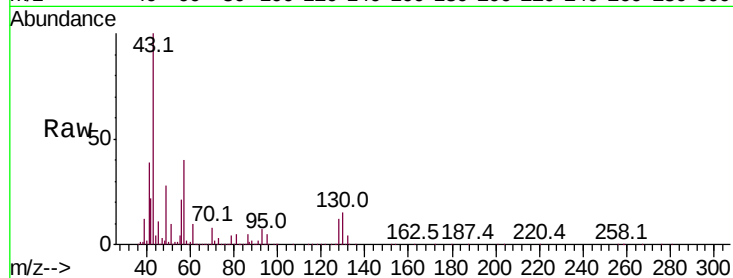
#25
Ethyl Acetate
Concen: 12.485 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	4577312
Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.3	12.5
61	9.8	7.3	10.9
70	7.0	5.4	8.0

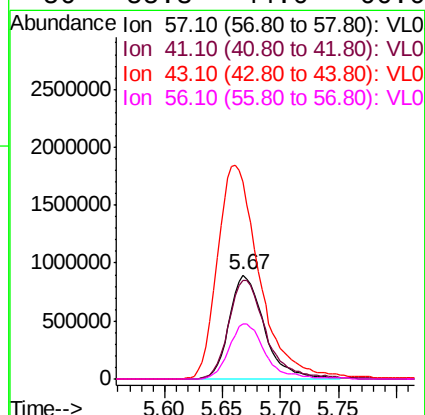
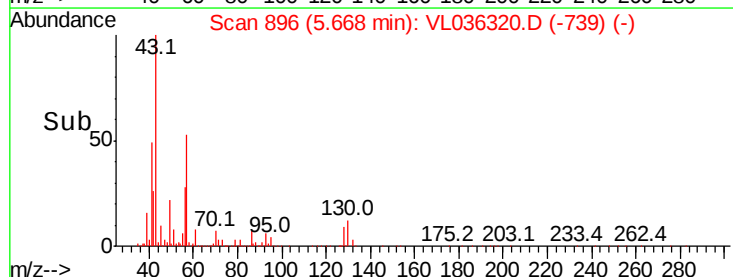
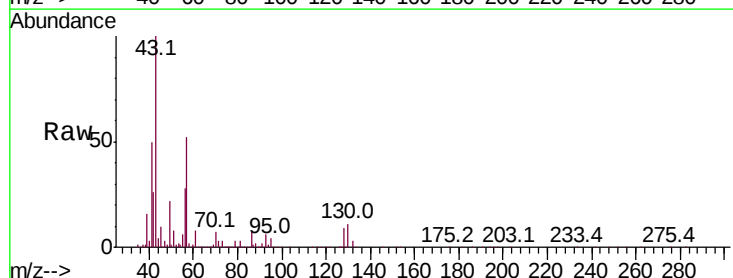
Manual Integrations
APPROVED

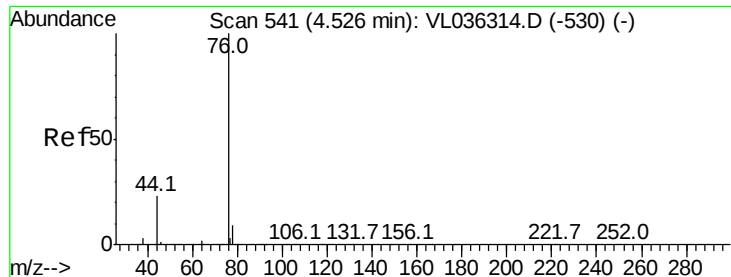
MMDadoda
2/12/2021 1:42:03 PM



#26
Hexane
Concen: 12.278 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	57	Resp	1874072
Ion	Ratio	Lower	Upper
57	100		
41	102.0	81.7	122.5
43	249.3	199.1	298.7
56	55.3	44.0	66.0





#27

Carbon Disulfide

Concen: 16.825 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

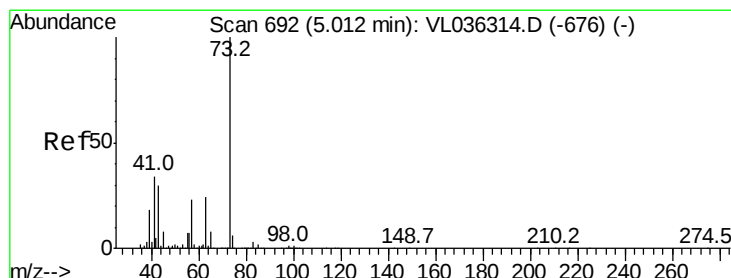
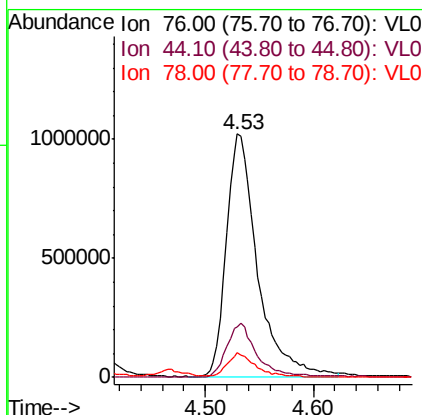
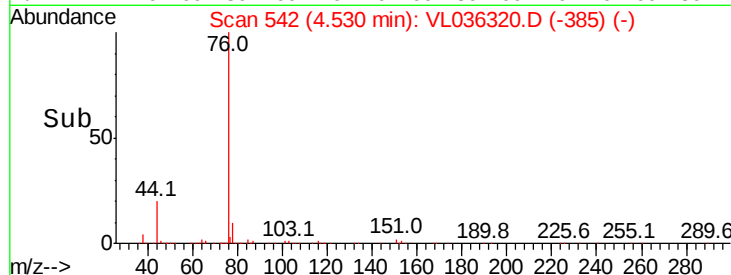
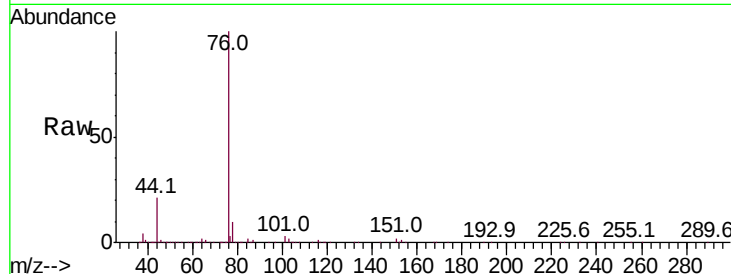
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 76 Resp: 2053483

Ion	Ratio	Lower	Upper
76	100		
44	21.6	18.4	27.6
78	9.8	8.0	12.0

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#28

Methyl tert-Butyl Ether

Concen: 12.556 ppbv

RT: 5.02 min Scan# 693

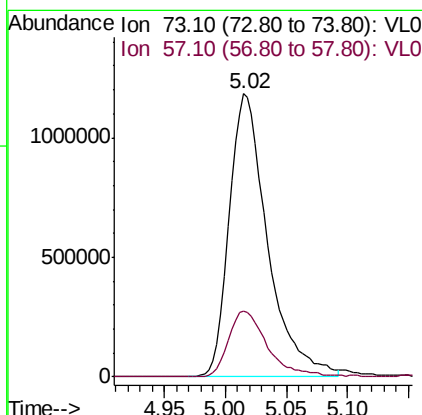
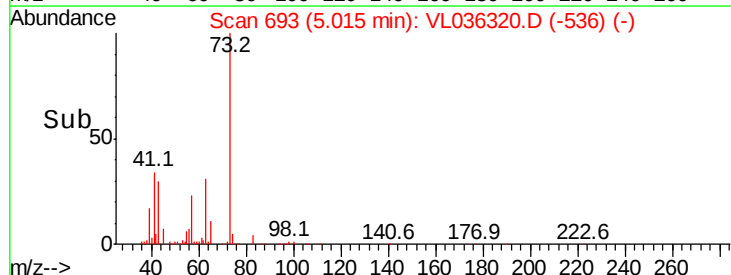
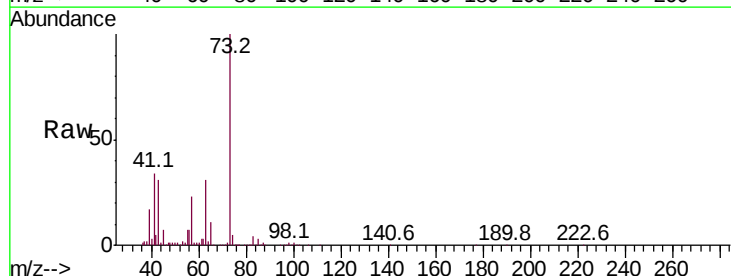
Delta R.T. 0.00 min

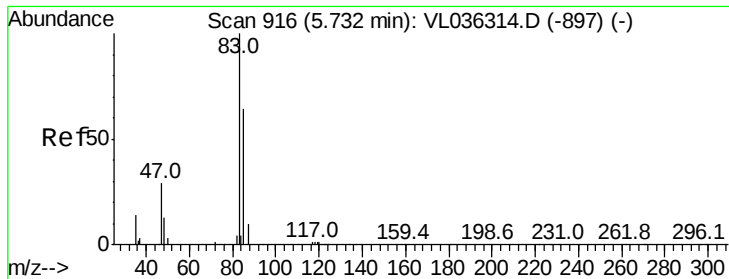
Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion: 73 Resp: 2591783

Ion	Ratio	Lower	Upper
73	100		
57	24.0	19.2	28.8





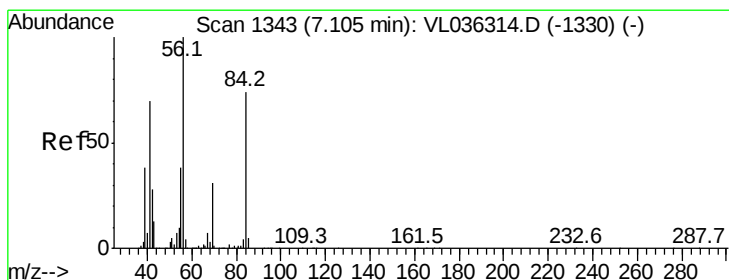
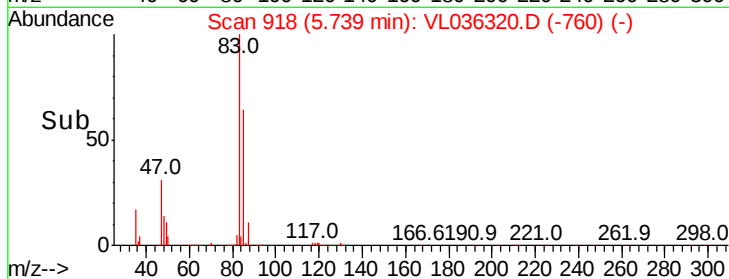
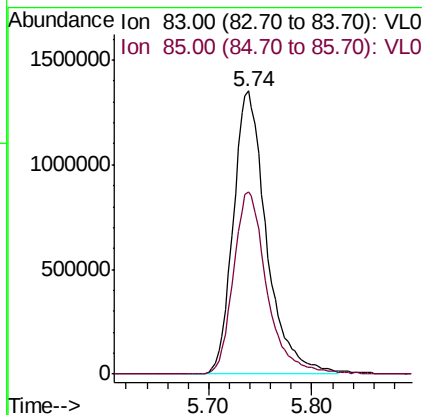
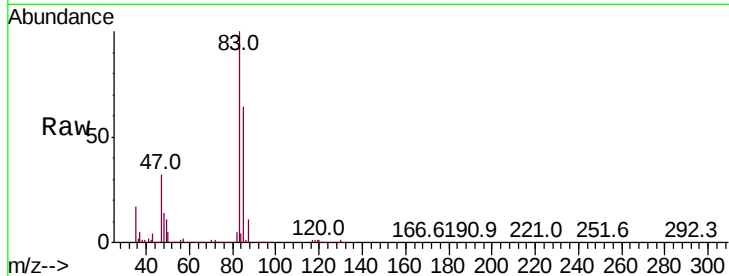
#29
Chloroform
Concen: 13.900 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 3037864
Ion Ratio Lower Upper
83 100
85 64.2 51.4 77.2

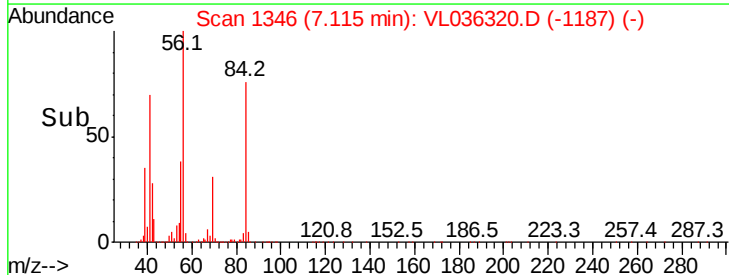
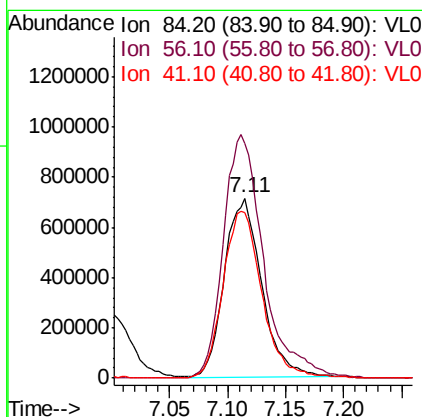
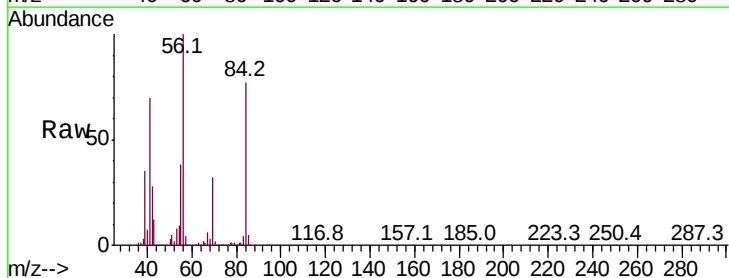
Manual Integrations
APPROVED

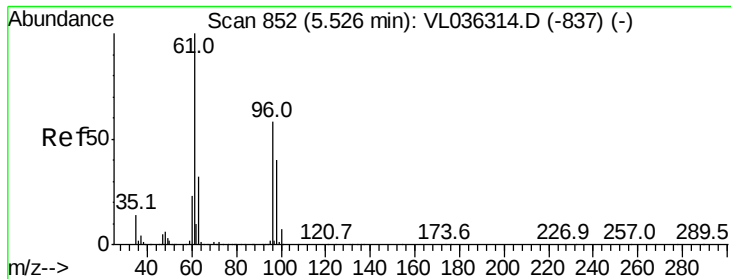
MMDadoda
2/12/2021 1:42:03 PM



#30
Cyclohexane
Concen: 13.699 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 84 Resp: 1597865
Ion Ratio Lower Upper
84 100
56 147.3 120.2 180.4
41 97.0 79.7 119.5





#31

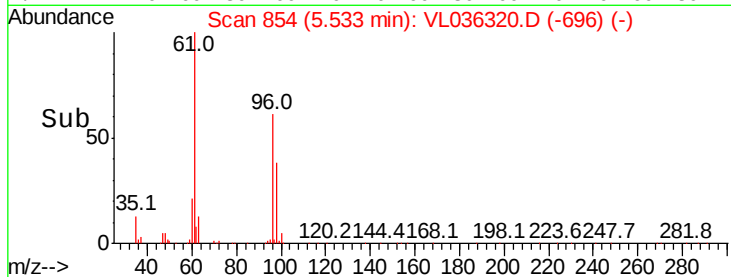
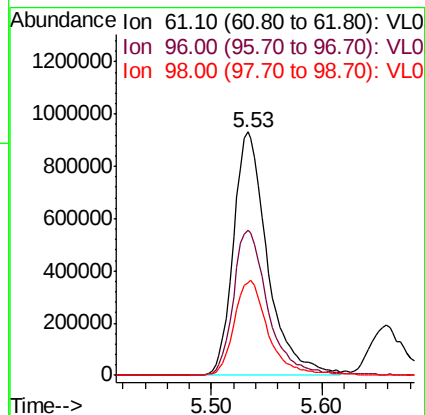
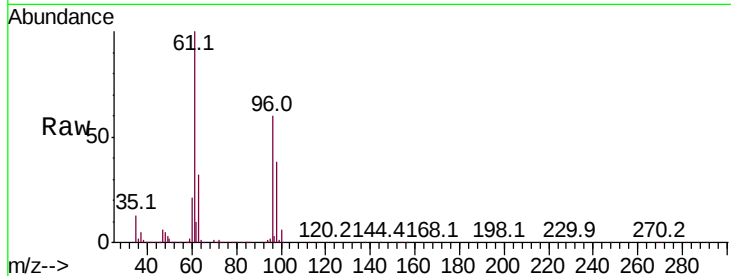
cis-1,2-Dichloroethene
Concen: 13.645 ppbv
RT: 5.53 min Scan# 854
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.7	46.0	69.0
98	37.8	31.9	47.9

Manual Integrations
APPROVED

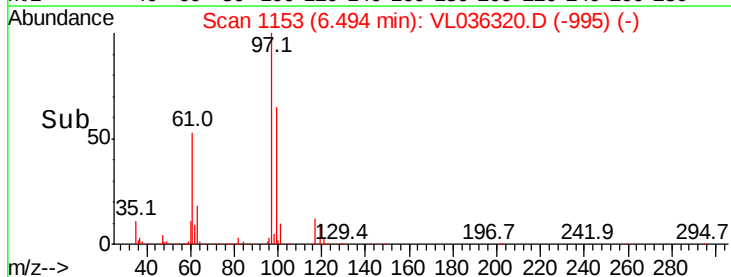
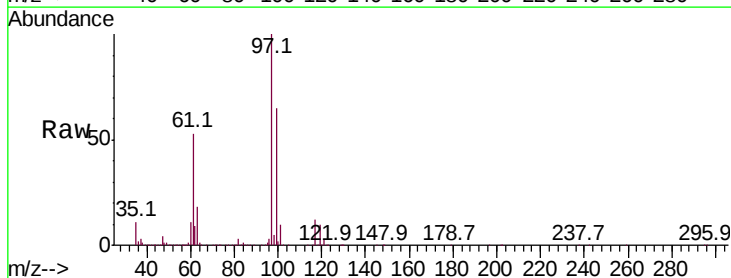
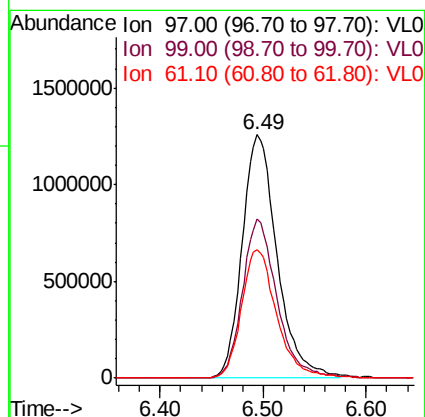
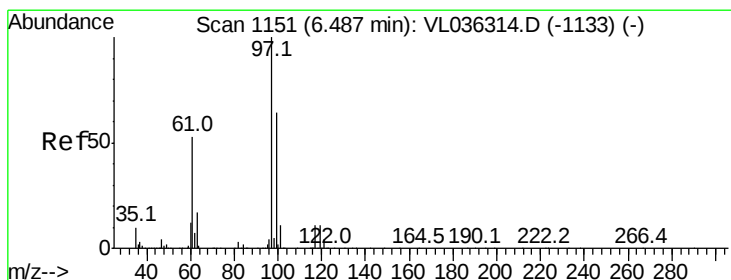
MMDadoda
2/12/2021 1:42:03 PM

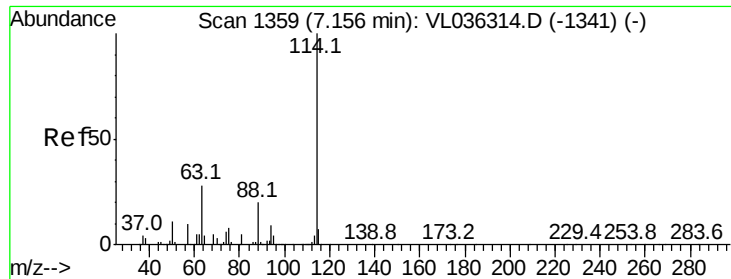


#32

1,1,1-Trichloroethane
Concen: 14.016 ppbv
RT: 6.49 min Scan# 1153
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.2	78.4
61	53.5	43.3	64.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

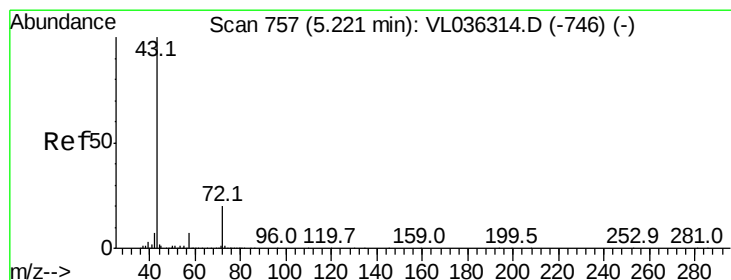
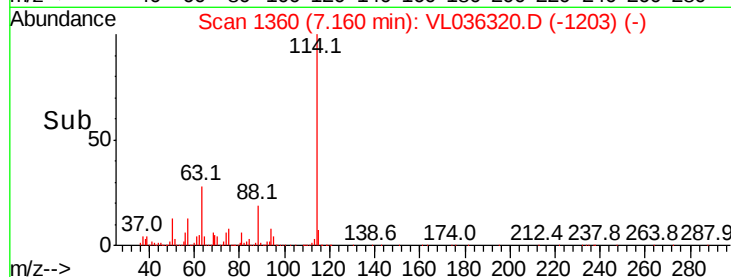
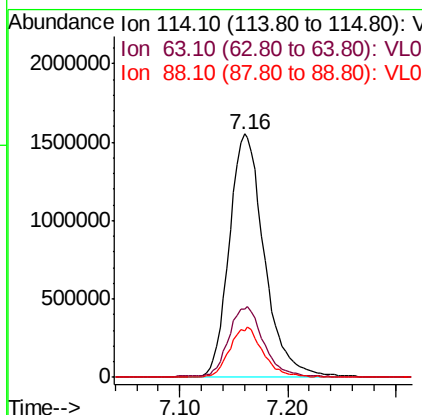
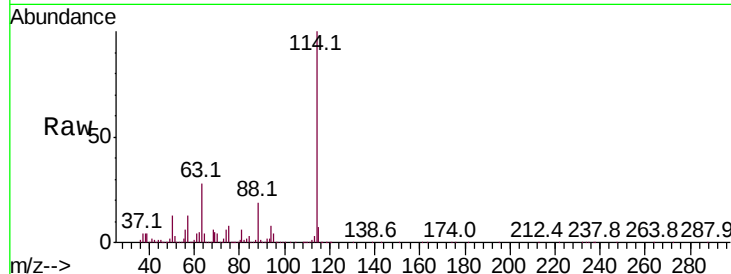
Instrument :
MSVOA_L

ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.7	24.1	36.1
88	19.8	16.0	24.0

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#34

2-Butanone

Concen: 11.562 ppbv

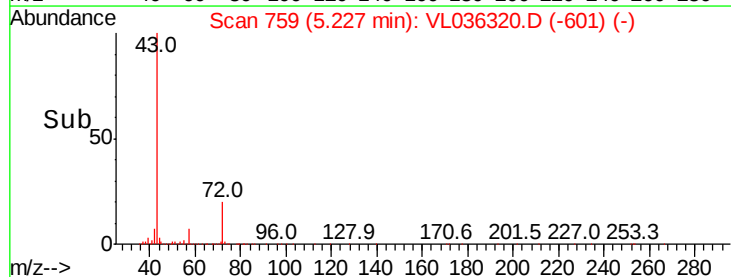
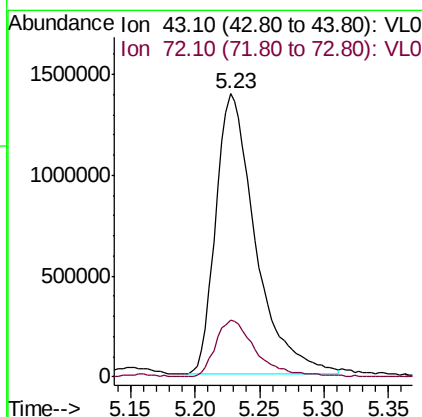
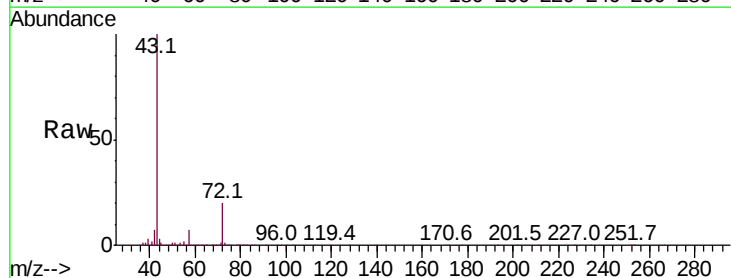
RT: 5.23 min Scan# 759

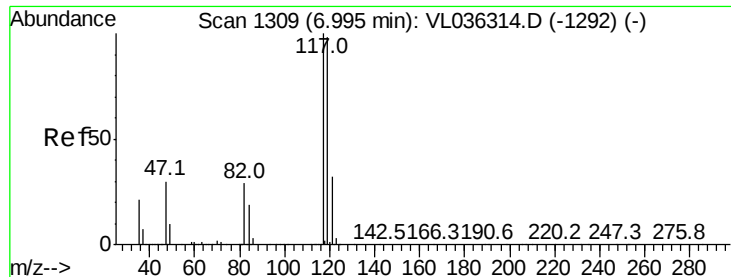
Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.1	16.7	25.1





#35

Carbon Tetrachloride

Concen: 13.800 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3051345

Ion Ratio Lower Upper

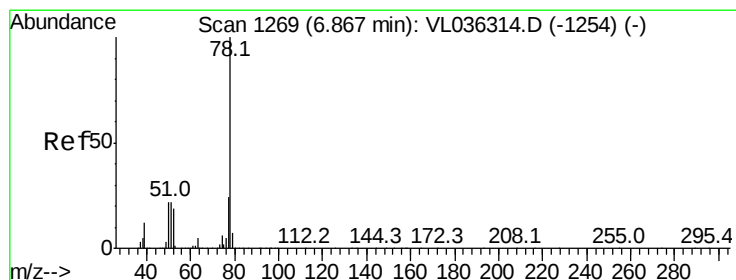
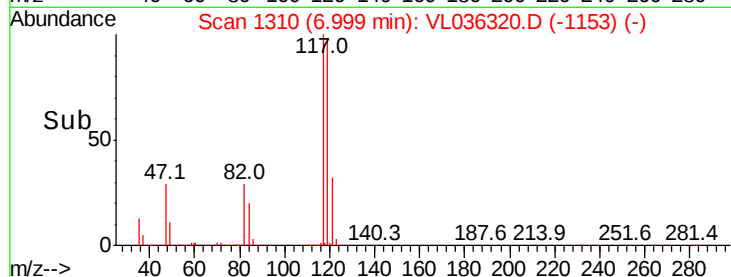
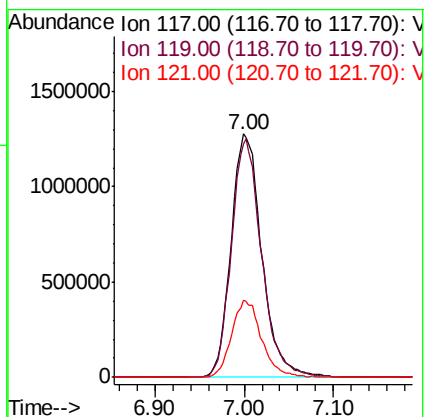
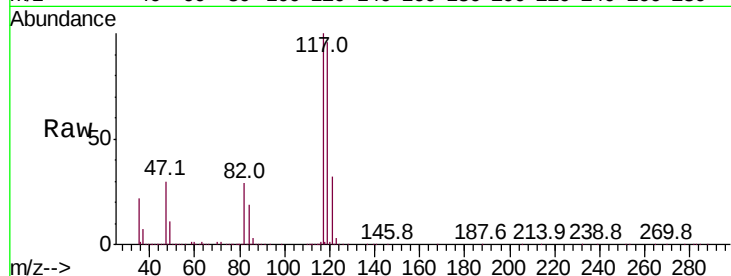
117 100

119 96.1 78.1 117.1

121 31.7 25.8 38.8

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#36

Benzene

Concen: 12.300 ppbv

RT: 6.88 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

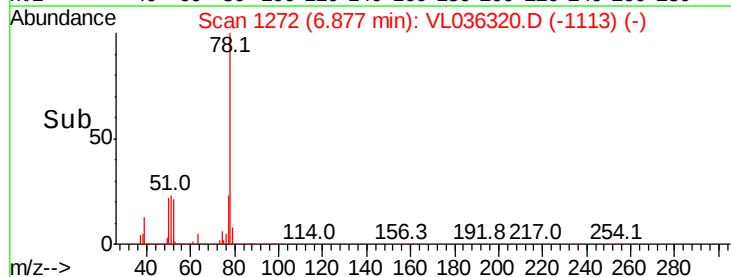
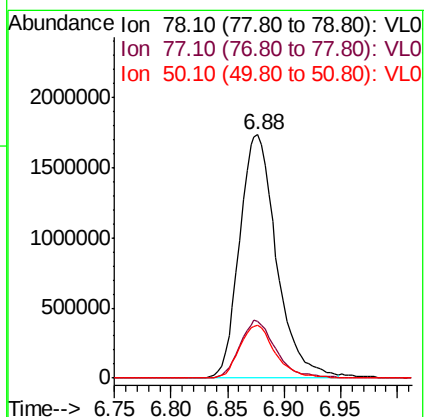
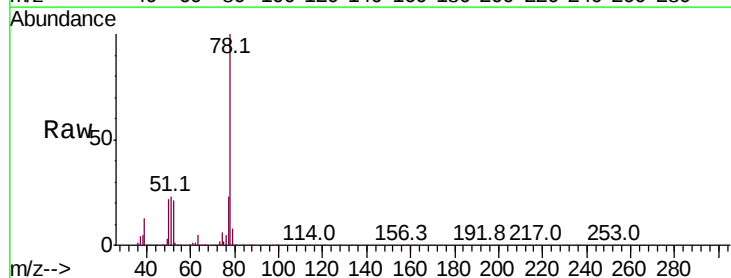
Tgt Ion: 78 Resp: 3943912

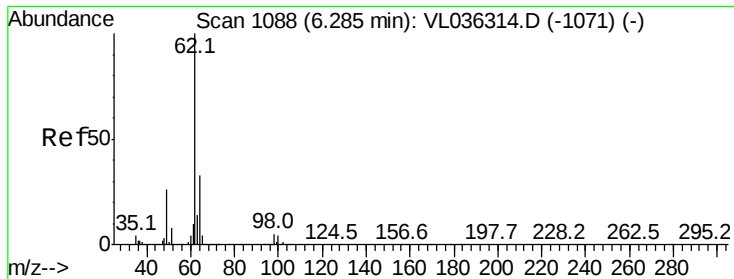
Ion Ratio Lower Upper

78 100

77 23.3 18.9 28.3

50 21.7 17.3 25.9





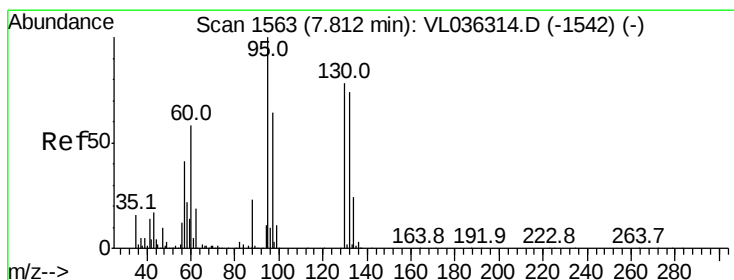
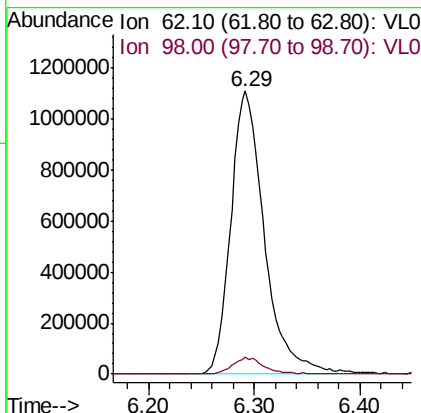
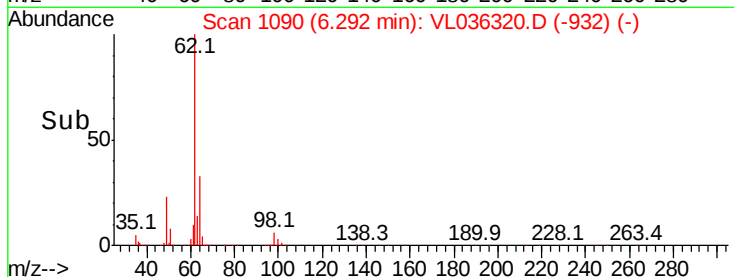
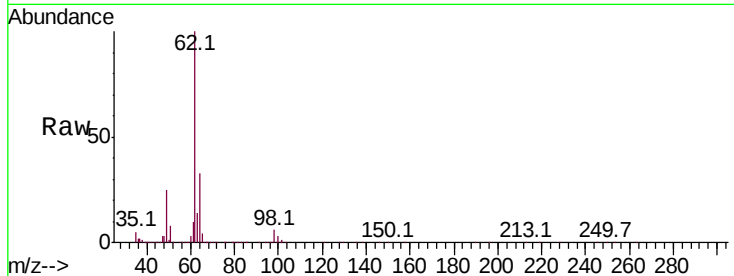
#37
 1,2-Dichloroethane
 Concen: 12.659 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2442559
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.5 6.7

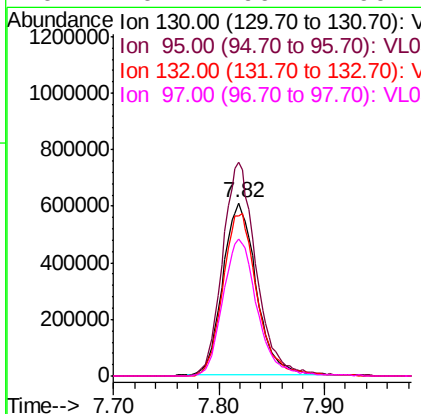
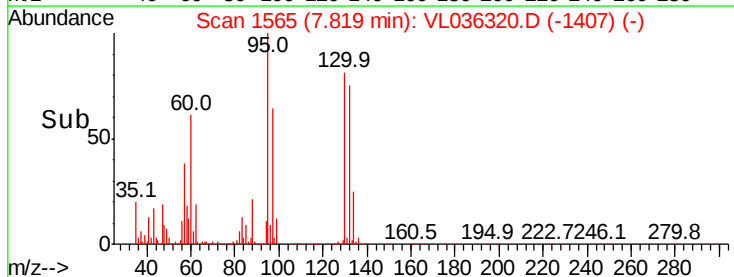
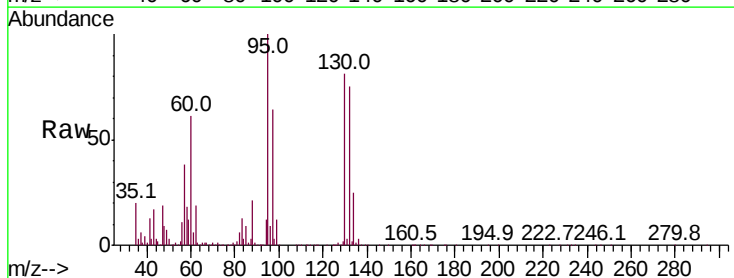
Manual Integrations
 APPROVED

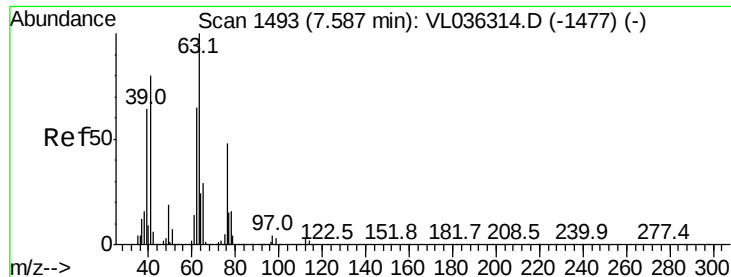
MMDadoda
 2/12/2021 1:42:03 PM



#38
 Trichloroethene
 Concen: 11.263 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Tgt Ion:130 Resp: 1337671
 Ion Ratio Lower Upper
 130 100
 95 123.9 102.8 154.2
 132 92.9 75.7 113.5
 97 79.1 66.2 99.2





#39

1,2-Dichloropropane

Concen: 12.393 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1613486

Ion Ratio Lower Upper

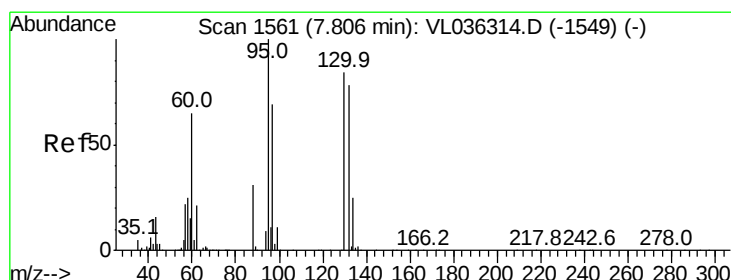
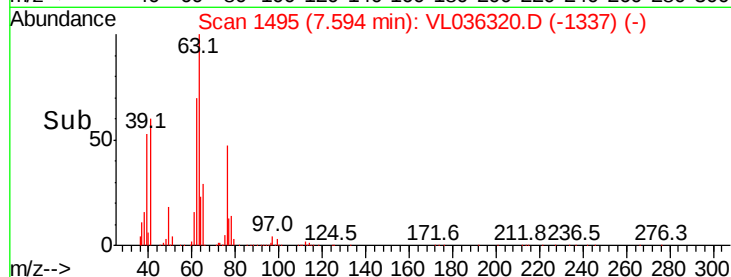
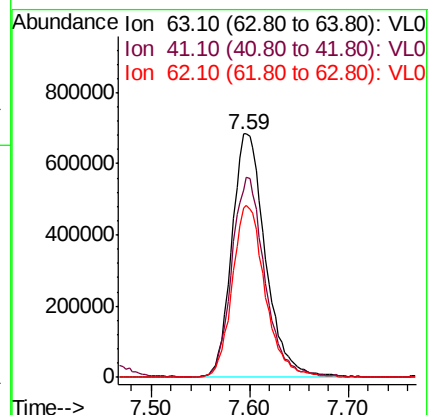
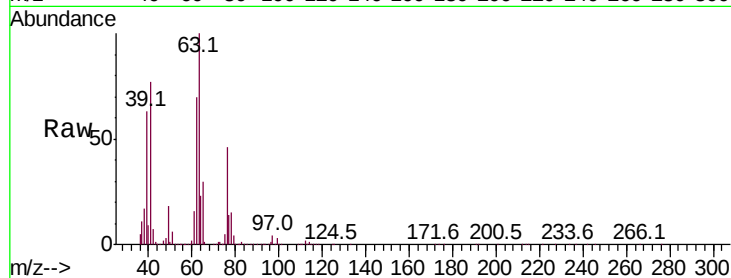
63 100

41 76.5 63.8 95.6

62 69.4 52.3 78.5

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#40

1,4-Dioxane

Concen: 9.898 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion: 88 Resp: 466161

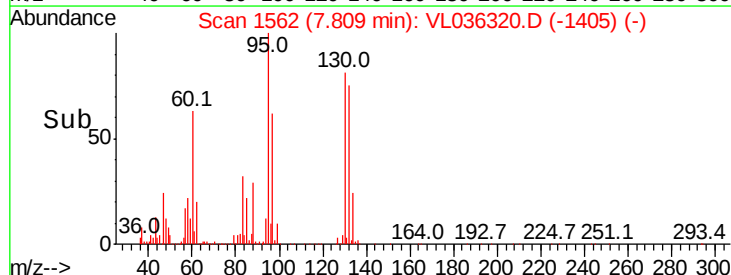
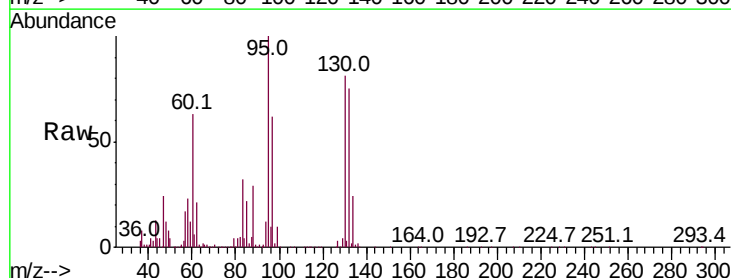
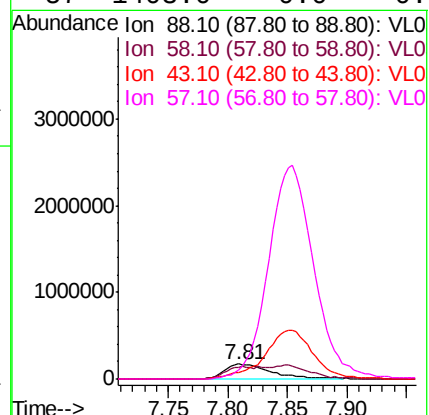
Ion Ratio Lower Upper

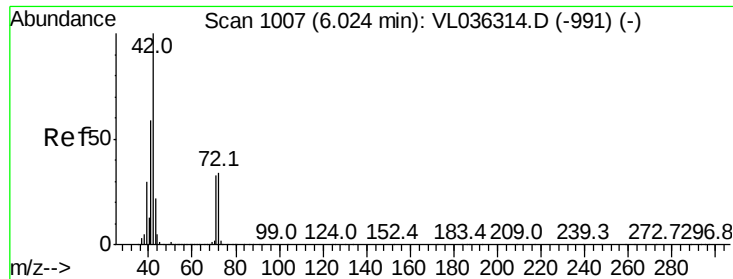
88 100

58 147.7 45.0 67.4#

43 344.1 0.0 0.0#

57 1403.0 0.0 0.0#





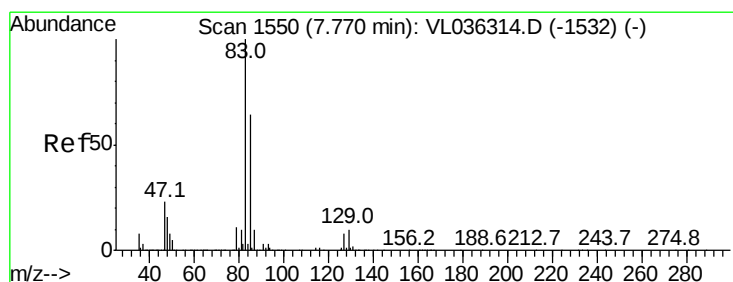
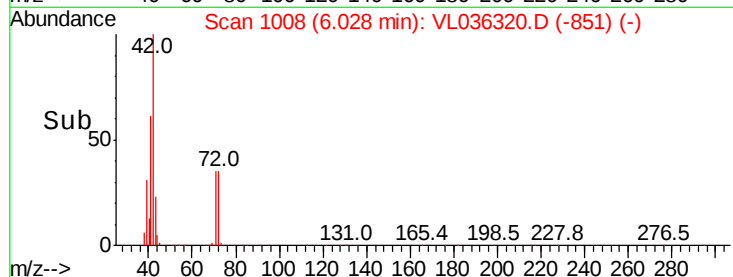
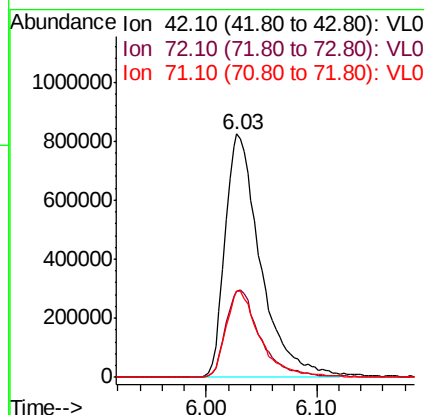
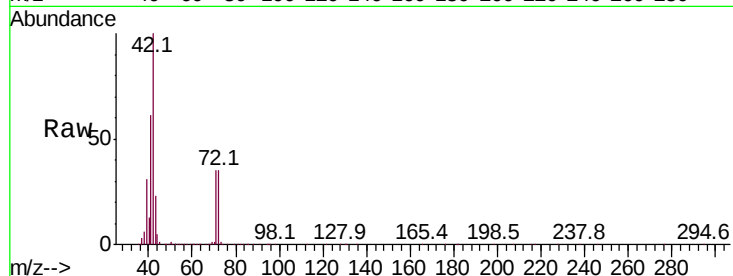
#41
Tetrahydrofuran
Concen: 12.286 ppbv
RT: 6.03 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.6	29.3	43.9
71	34.6	27.8	41.8

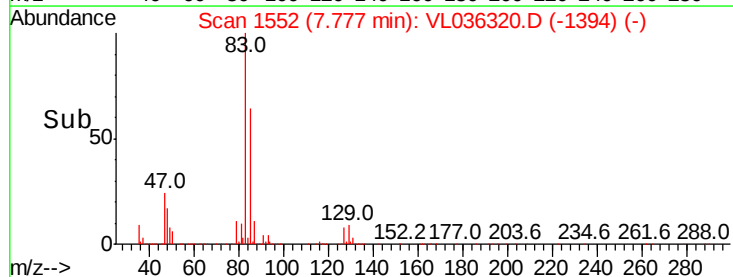
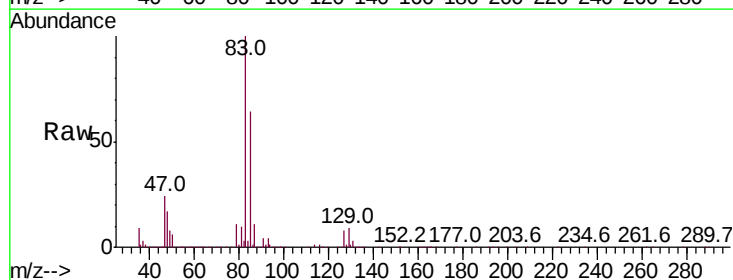
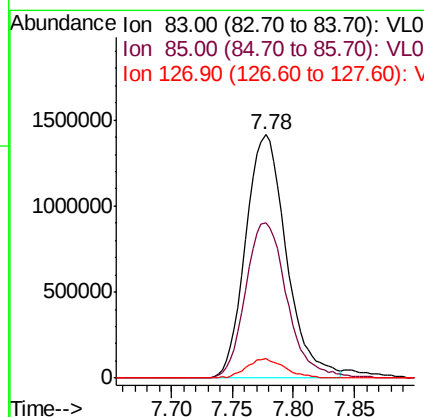
Manual Integrations
APPROVED

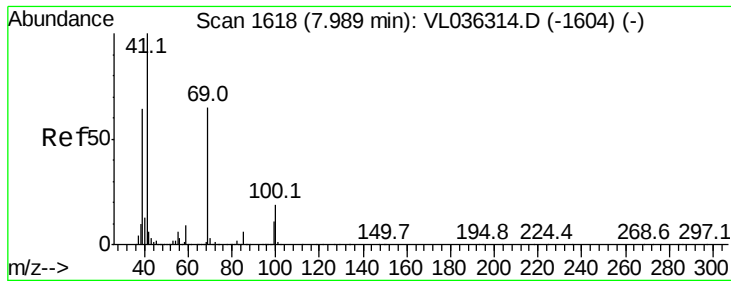
MMDadoda
2/12/2021 1:42:03 PM



#42
Bromodichloromethane
Concen: 13.443 ppbv
RT: 7.78 min Scan# 1552
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7
127	8.1	6.3	9.5





#43

Methyl Methacrylate

Concen: 13.285 ppbv

RT: 8.00 min Scan# 1621

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

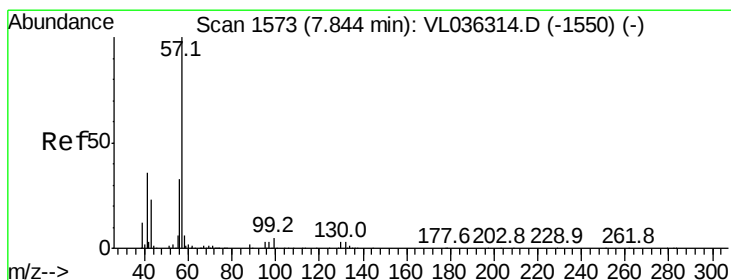
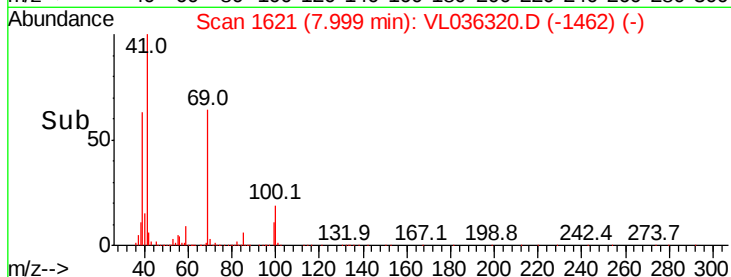
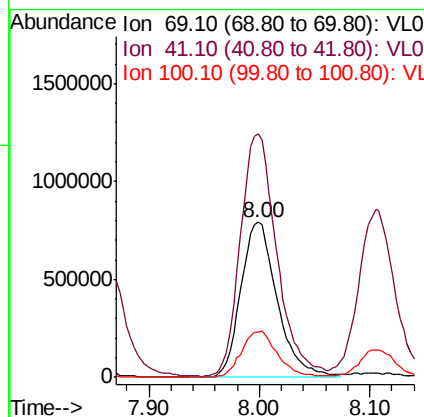
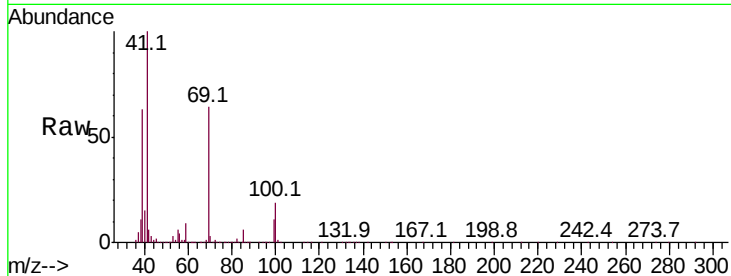
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 1810357

Ion	Ratio	Lower	Upper
69	100		
41	158.1	126.5	189.7
100	29.8	23.1	34.7

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#44

2,2,4-Trimethylpentane

Concen: 11.082 ppbv

RT: 7.85 min Scan# 1576

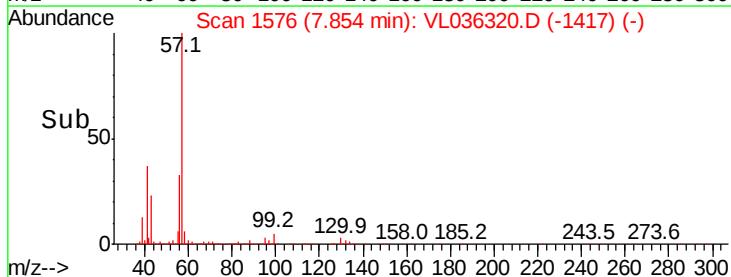
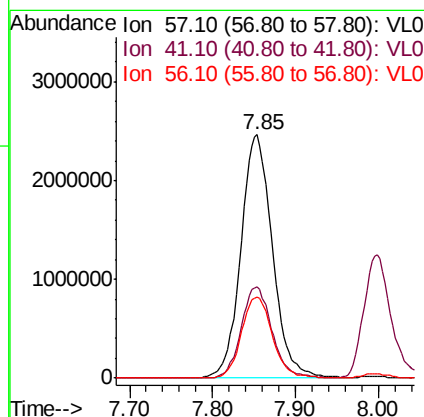
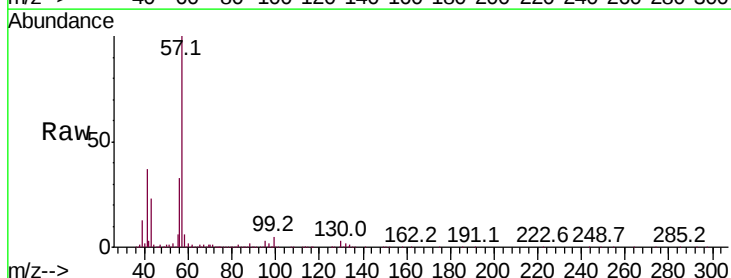
Delta R.T. 0.01 min

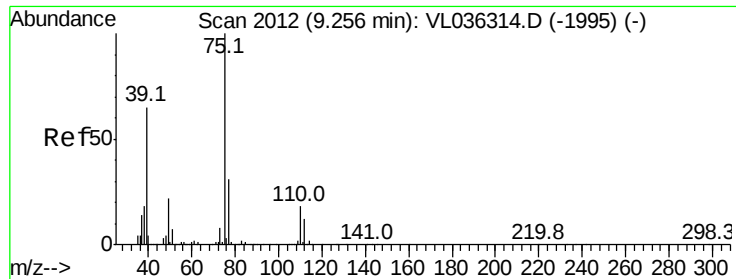
Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion: 57 Resp: 6526813

Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.8	43.2
56	32.8	25.8	38.6





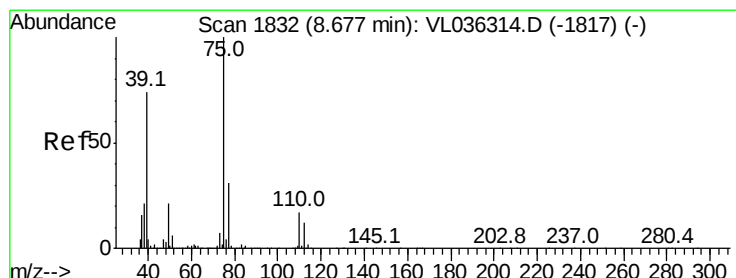
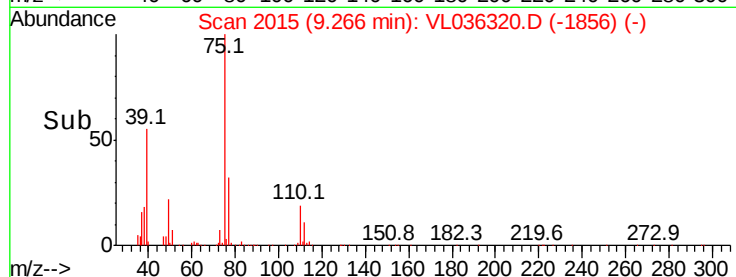
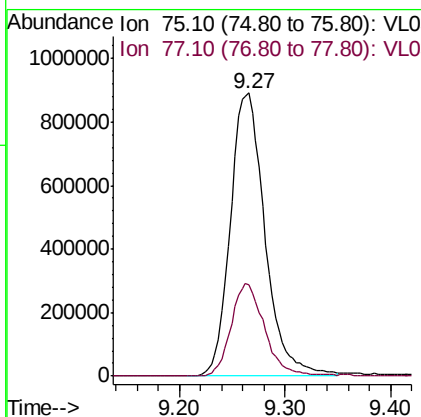
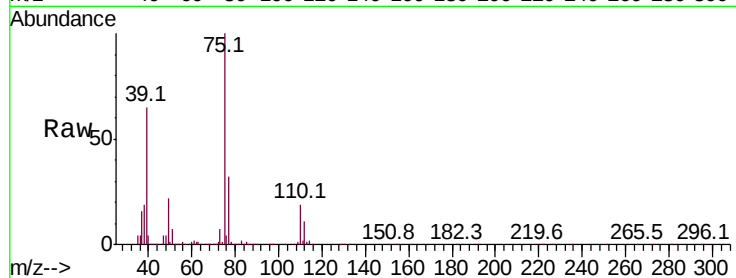
#45
 t-1,3-Dichloropropene
 Concen: 15.734 ppbv
 RT: 9.27 min Scan# 2015
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 75 Resp: 2036411
 Ion Ratio Lower Upper
 75 100
 77 32.4 24.6 37.0

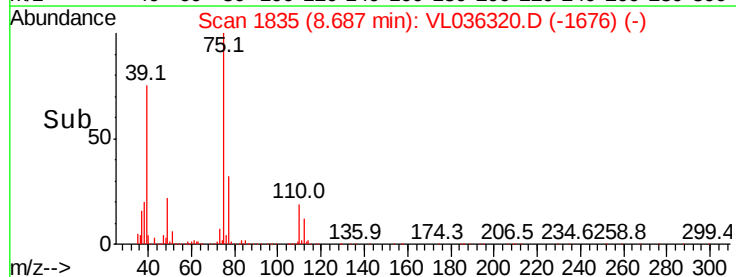
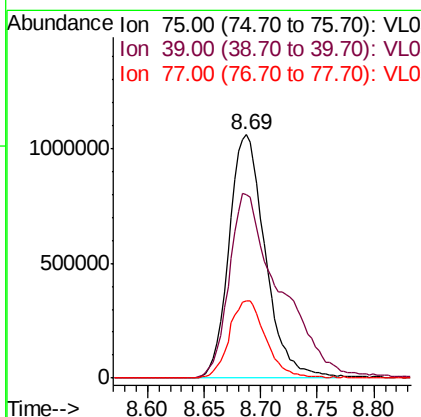
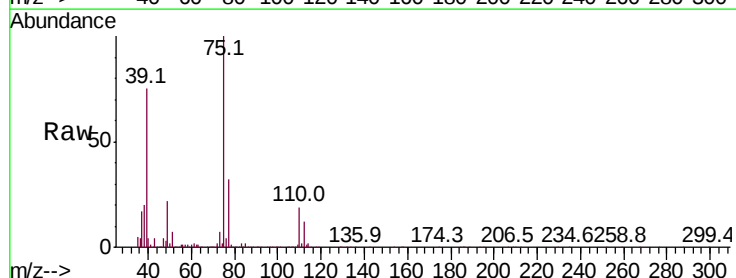
Manual Integrations
 APPROVED

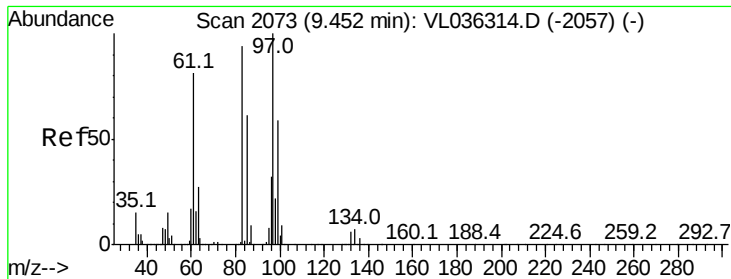
MMDadoda
 2/12/2021 1:42:03 PM



#46
 cis-1,3-Dichloropropene
 Concen: 14.212 ppbv
 RT: 8.69 min Scan# 1835
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Tgt Ion: 75 Resp: 2363864
 Ion Ratio Lower Upper
 75 100
 39 75.3 59.2 88.8
 77 31.6 25.0 37.6





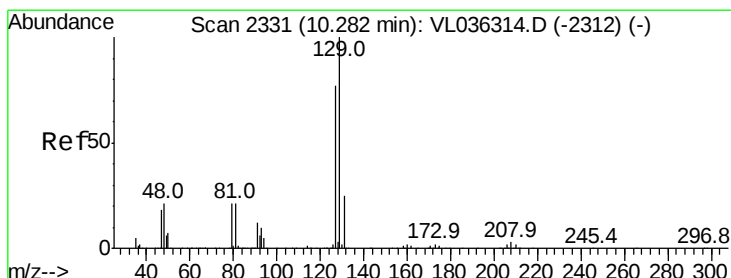
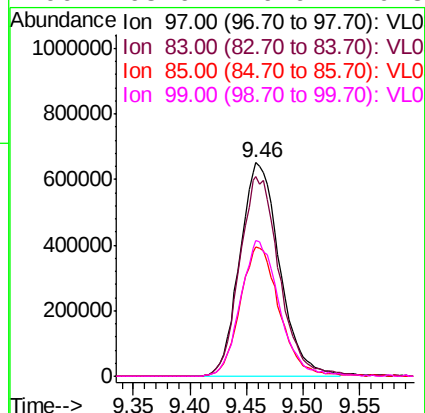
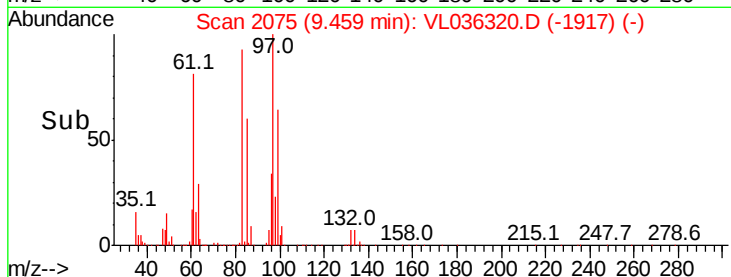
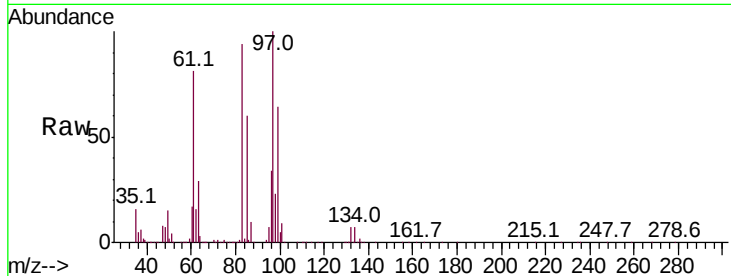
#47
 1,1,2-Trichloroethane
 Concen: 12.767 ppbv
 RT: 9.46 min Scan# 2075
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
97	100		
83	93.4	75.4	113.0
85	60.4	48.9	73.3
99	63.6	46.9	70.3

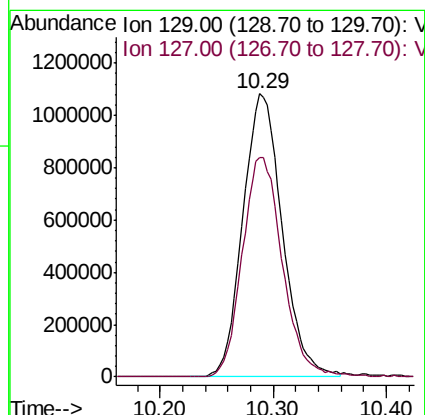
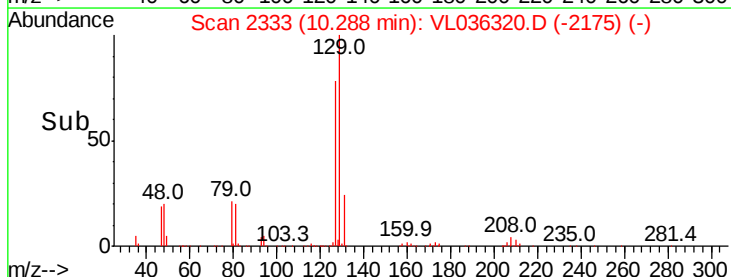
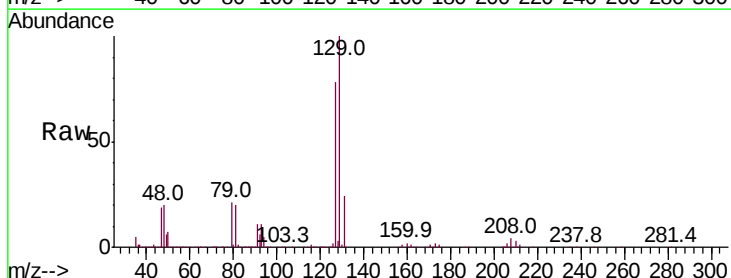
Manual Integrations
 APPROVED

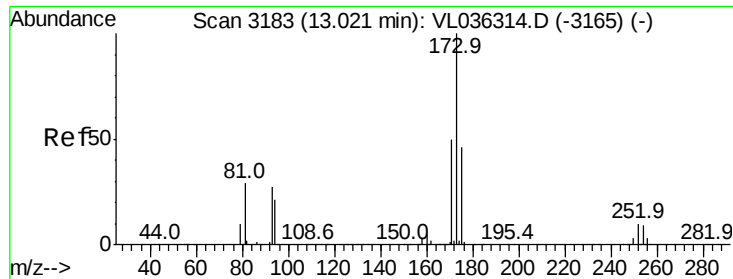
MMDadoda
 2/12/2021 1:42:03 PM



#48
 Dibromochloromethane
 Concen: 14.393 ppbv
 RT: 10.29 min Scan# 2333
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.7	39.1	117.2





#49

Bromoform

Concen: 14.675 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2232107

Ion Ratio Lower Upper

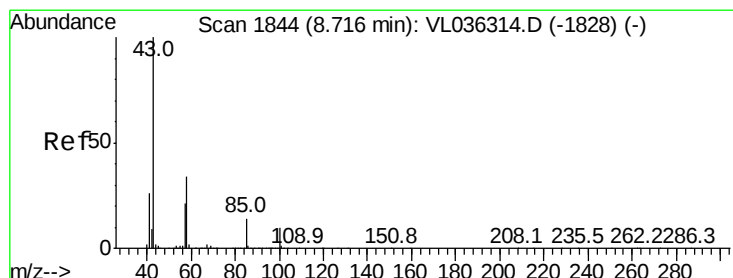
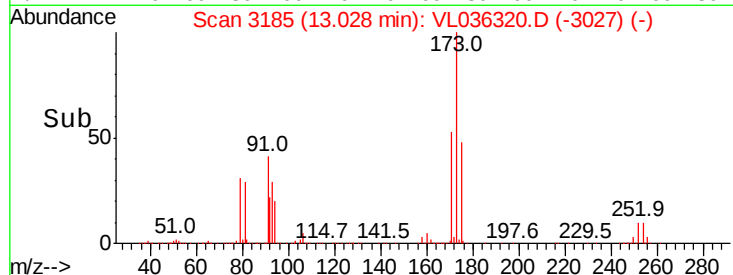
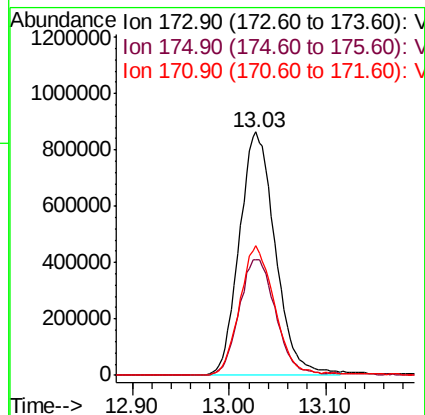
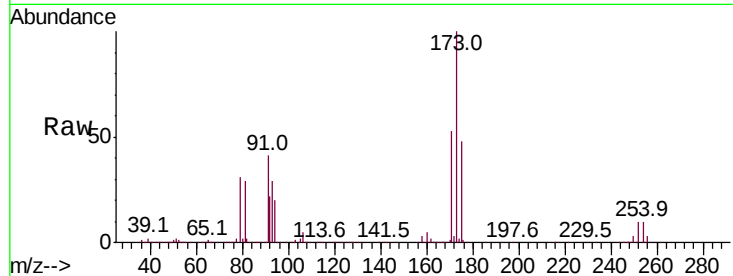
173 100

175 49.6 40.2 60.2

171 53.0 43.4 65.2

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#50

4-Methyl-2-Pentanone

Concen: 12.011 ppbv

RT: 8.73 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL036320.D

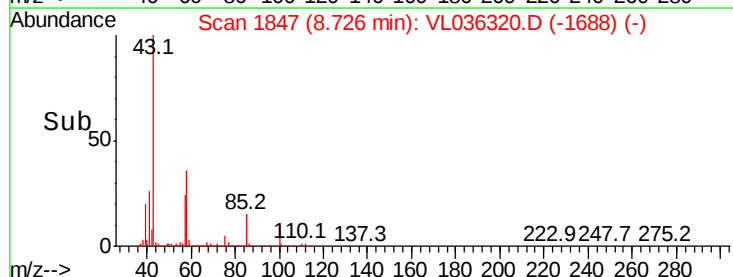
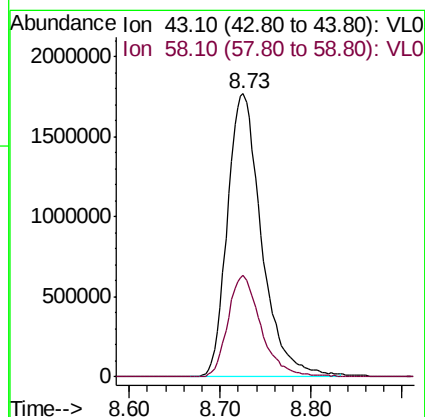
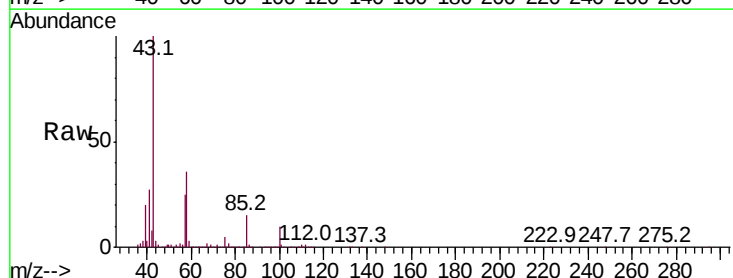
Acq: 10 Feb 2021 15:19

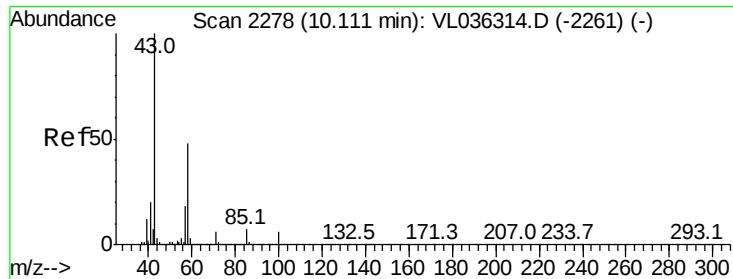
Tgt Ion: 43 Resp: 4615289

Ion Ratio Lower Upper

43 100

58 34.9 27.8 41.6





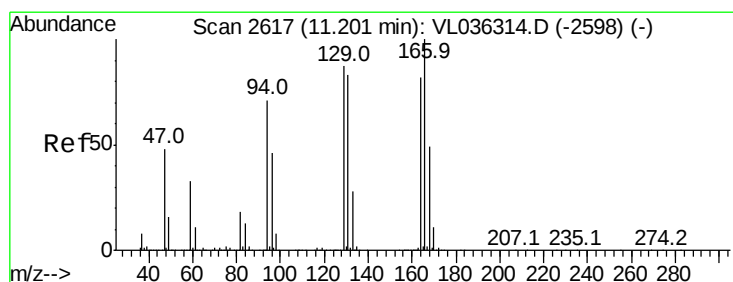
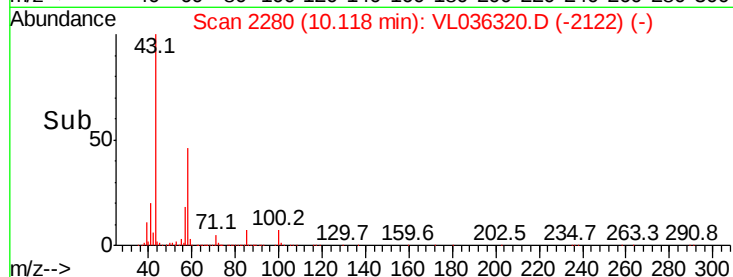
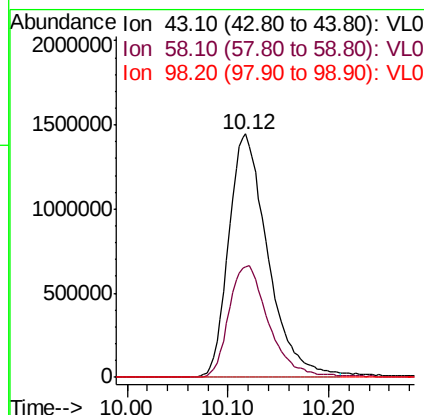
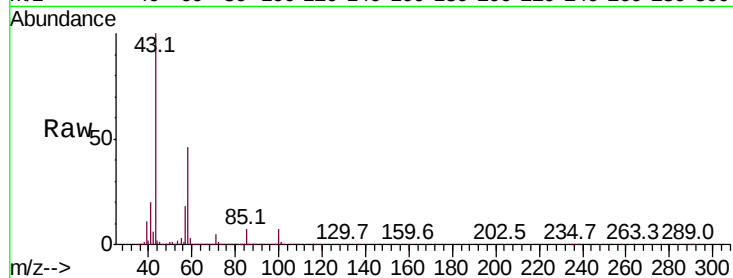
#51
2-Hexanone
Concen: 12.902 ppbv
RT: 10.12 min Scan# 2280
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 3911306
Ion Ratio Lower Upper
43 100
58 47.4 38.7 58.1
98 0.4 0.4 0.6#

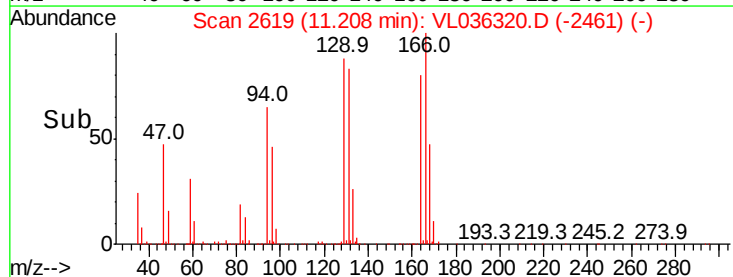
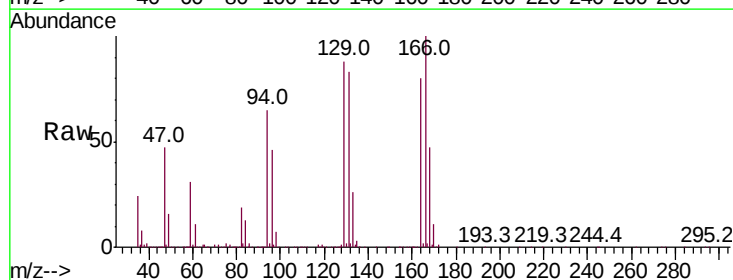
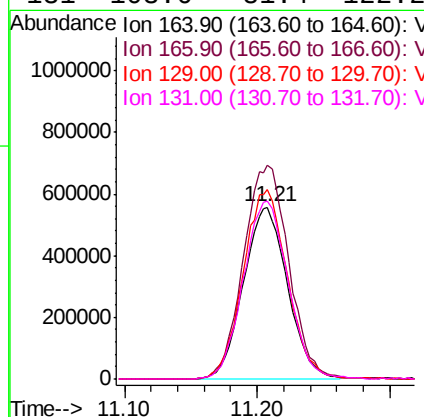
Manual Integrations
APPROVED

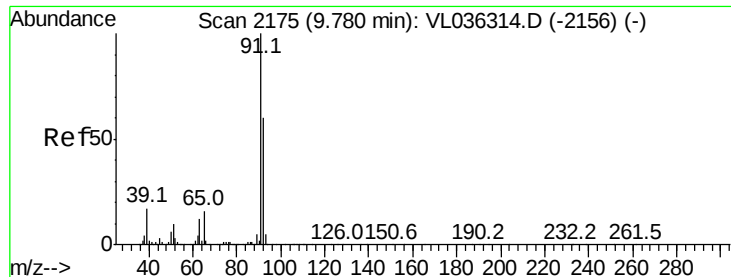
MMDadoda
2/12/2021 1:42:03 PM



#52
Tetrachloroethene
Concen: 10.857 ppbv
RT: 11.21 min Scan# 2619
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 164 Resp: 1282926
Ion Ratio Lower Upper
164 100
166 124.3 97.8 146.8
129 109.8 84.9 127.3
131 103.6 81.4 122.2





#53

Toluene

Concen: 12.219 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4382703

Ion Ratio Lower Upper

91 100

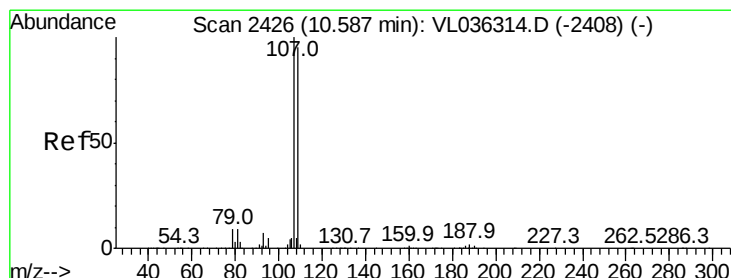
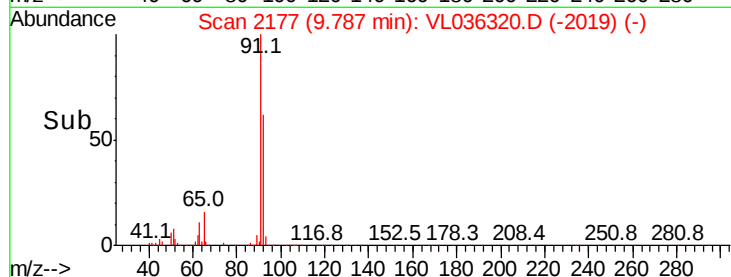
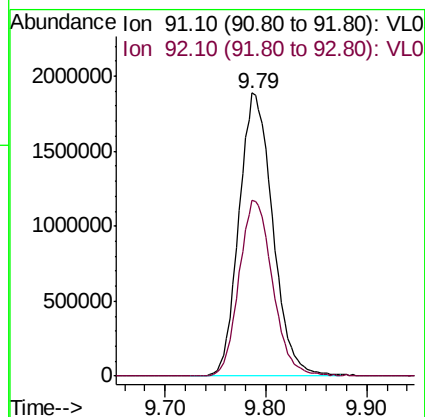
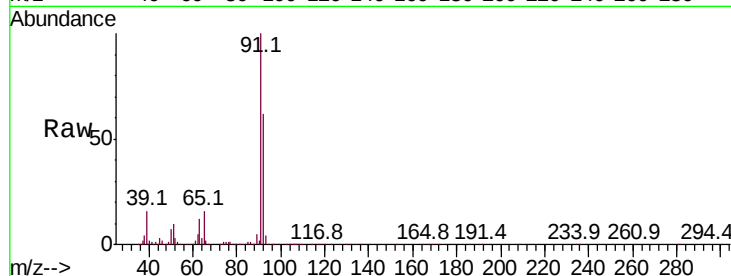
92 62.1 48.6 72.8

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:42:03 PM



#54

1,2-Dibromoethane

Concen: 12.921 ppbv

RT: 10.59 min Scan# 2428

Delta R.T. 0.01 min

Lab File: VL036320.D

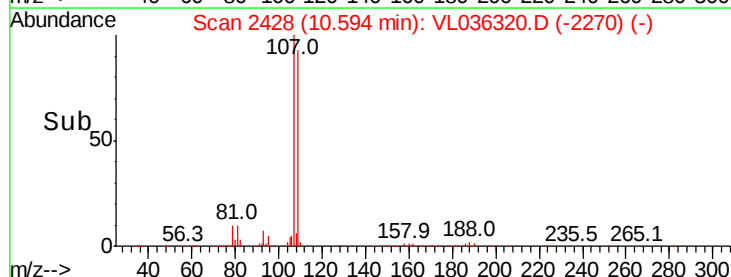
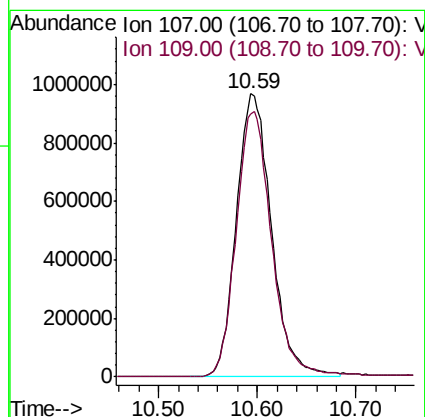
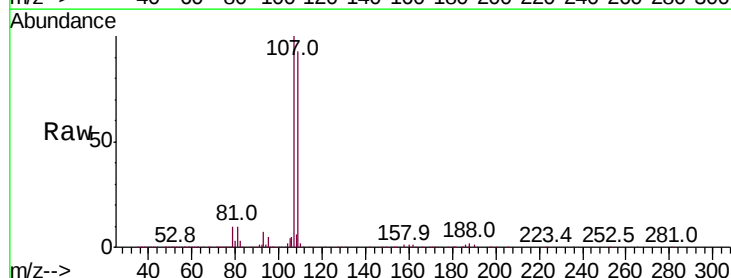
Acq: 10 Feb 2021 15:19

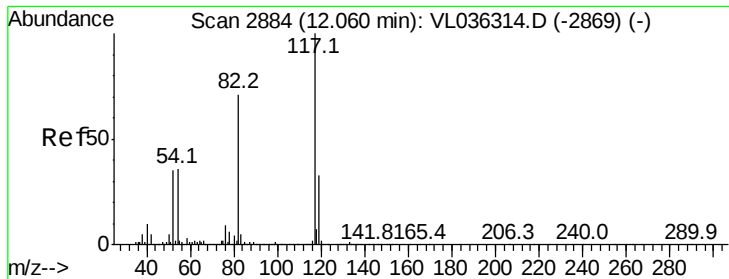
Tgt Ion: 107 Resp: 2385607

Ion Ratio Lower Upper

107 100

109 92.8 76.0 114.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3260602

Ion Ratio Lower Upper

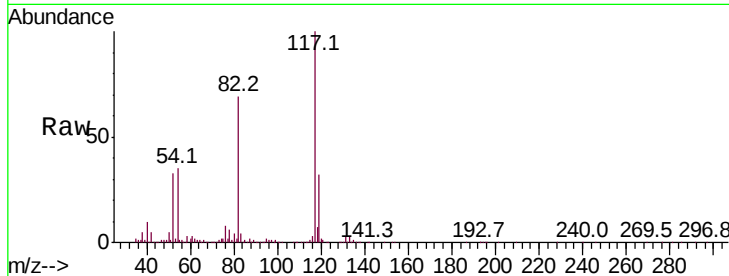
117 100

82 73.8 59.1 88.7

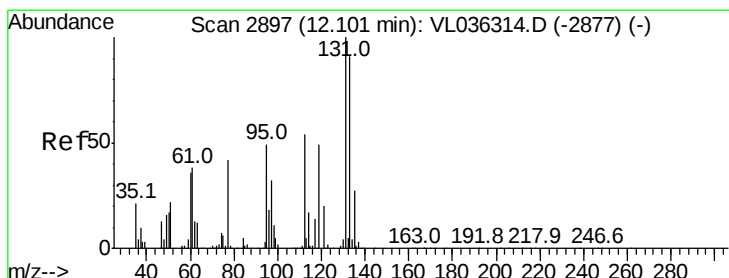
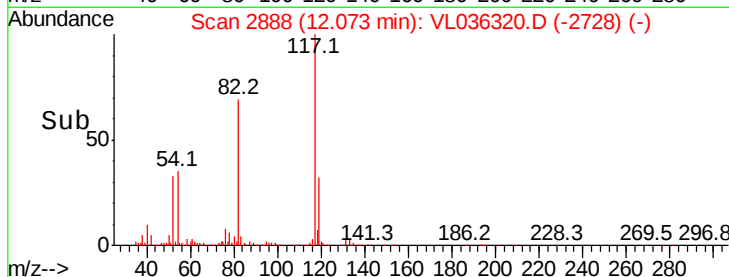
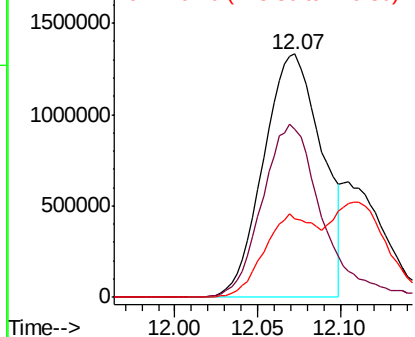
119 0.0 46.3 69.5#

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 13.275 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

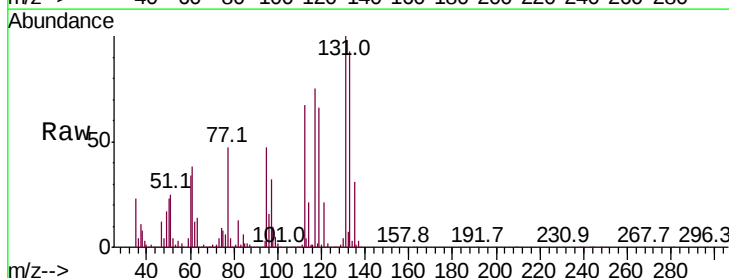
Tgt Ion:131 Resp: 1931636

Ion Ratio Lower Upper

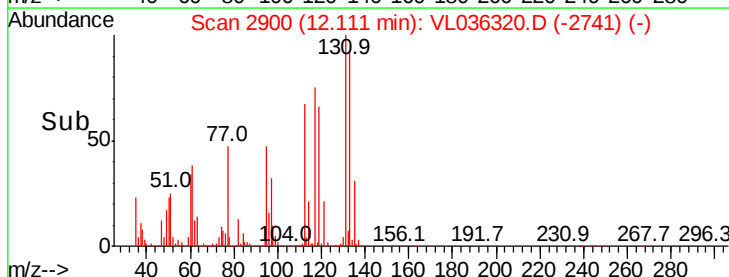
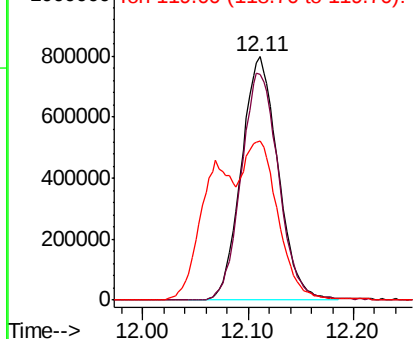
131 100

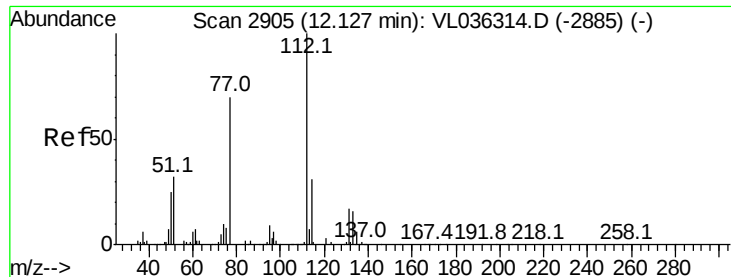
133 95.5 76.0 114.0

119 116.8 115.1 172.7



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 12.262 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 3136775

Ion Ratio Lower Upper

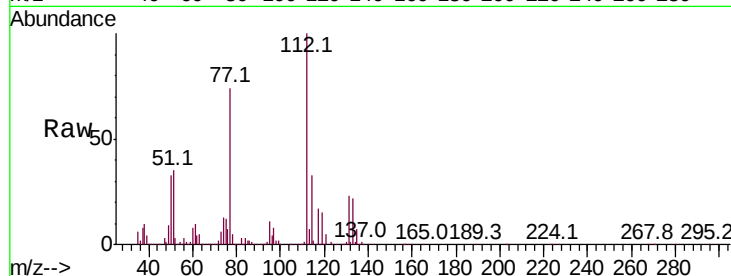
112 100

77 73.0 56.1 84.1

114 32.5 28.3 34.5

Manual Integrations
APPROVED

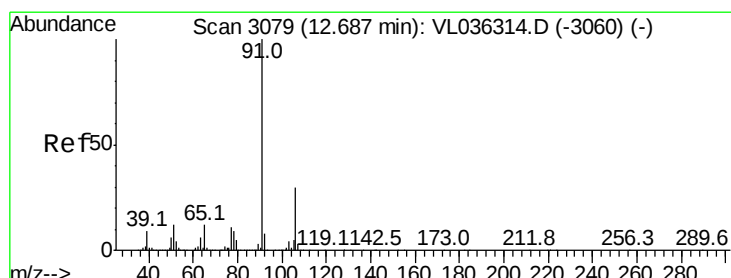
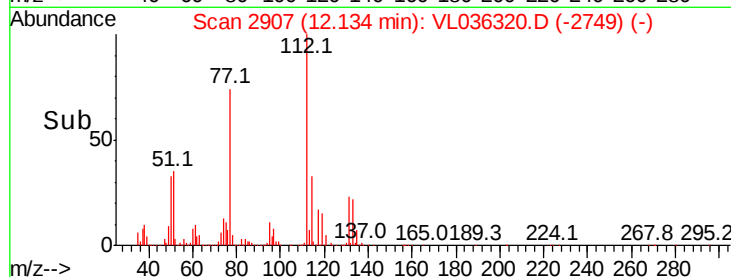
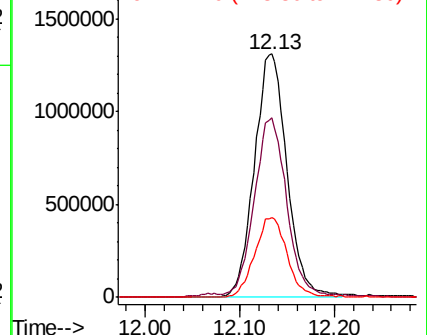
MMDadoda
2/12/2021 1:42:03 PM



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: 12.319 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. 0.01 min

Lab File: VL036320.D

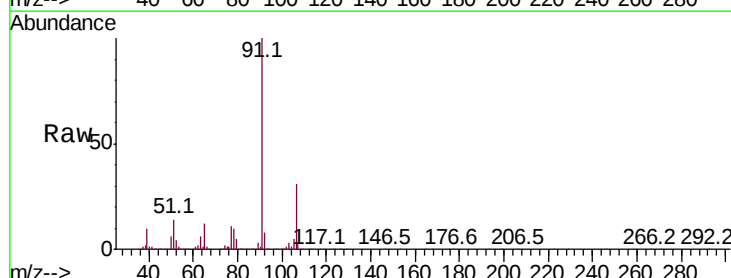
Acq: 10 Feb 2021 15:19

Tgt Ion: 91 Resp: 5960631

Ion Ratio Lower Upper

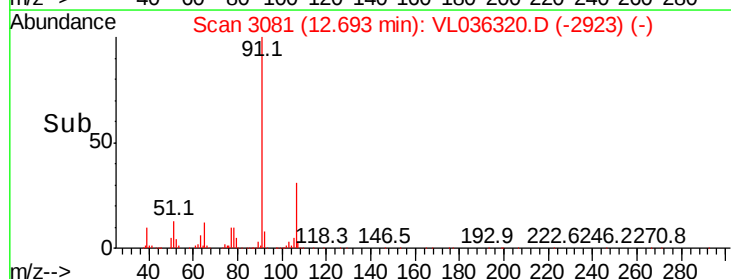
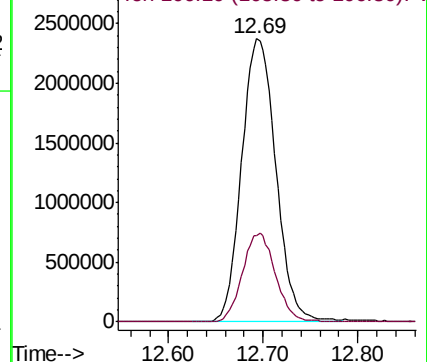
91 100

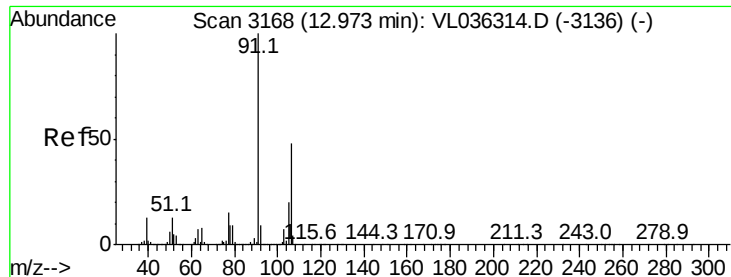
106 30.7 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





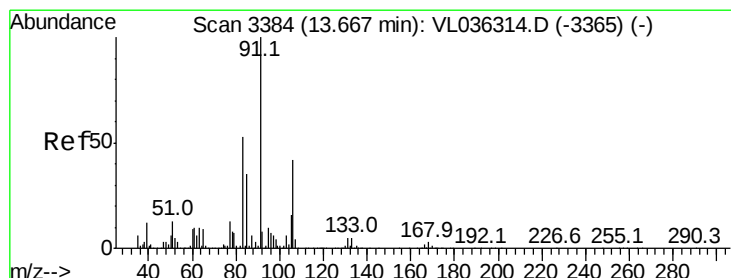
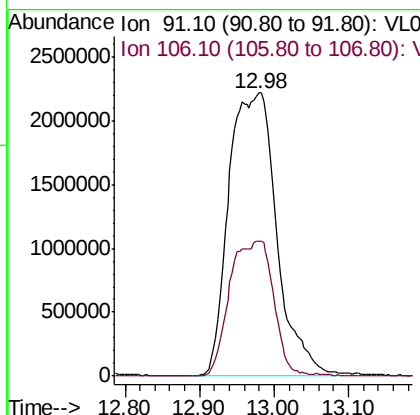
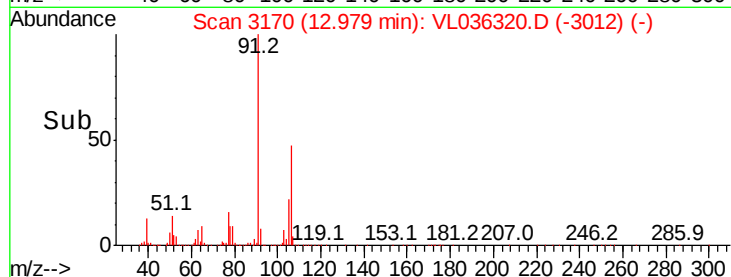
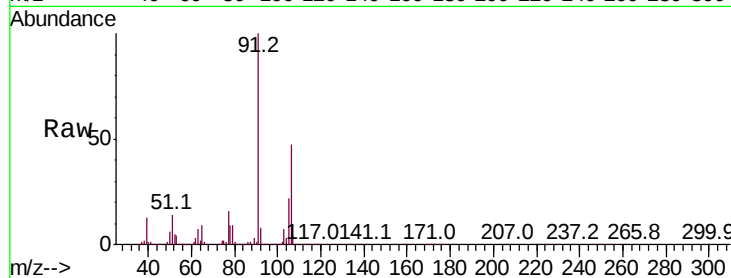
#59
m/p-Xylene
Concen: 23.845 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 9913643
Ion Ratio Lower Upper
91 100
106 43.9 34.2 51.2

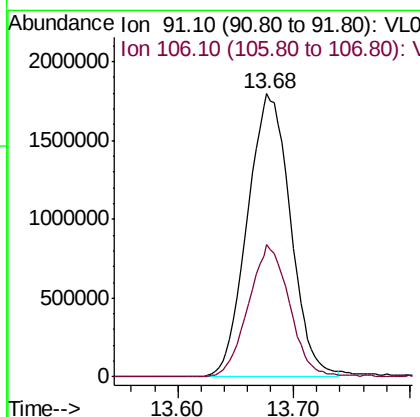
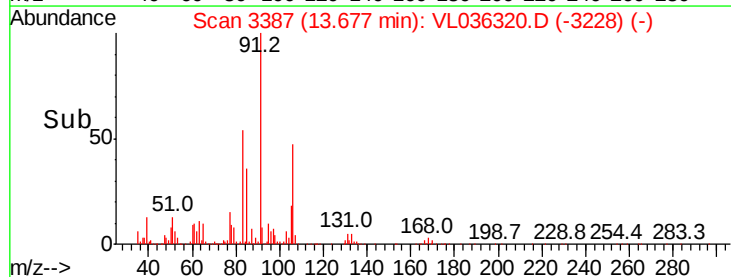
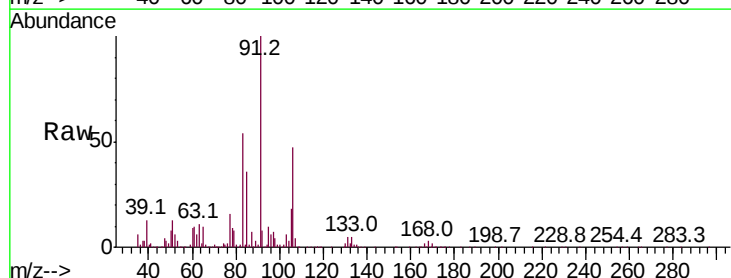
Manual Integrations
APPROVED

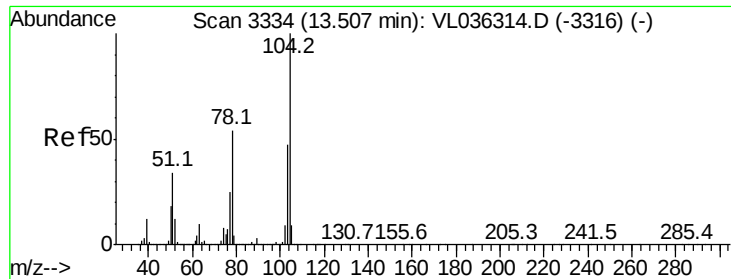
MMDadoda
2/12/2021 1:42:03 PM



#60
o-Xylene
Concen: 11.549 ppbv
RT: 13.68 min Scan# 3387
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion: 91 Resp: 4628477
Ion Ratio Lower Upper
91 100
106 44.7 22.0 66.0





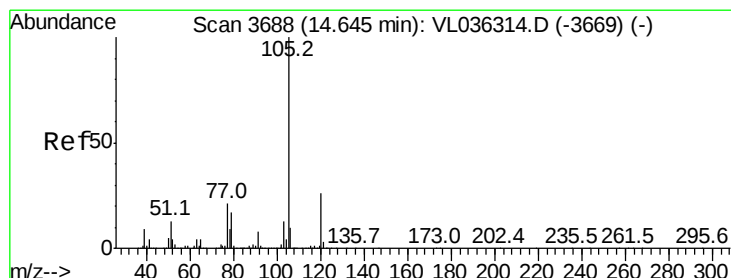
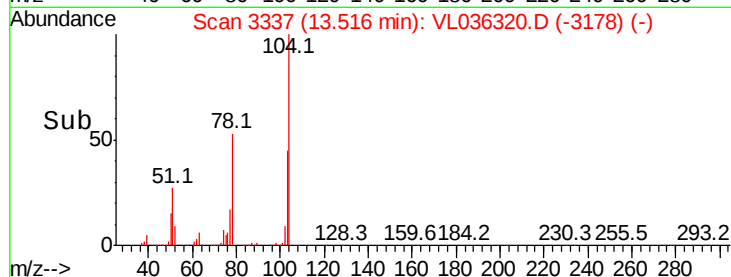
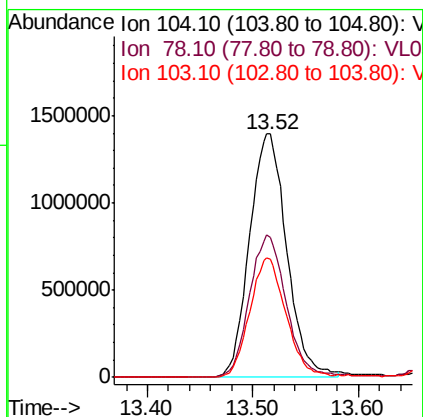
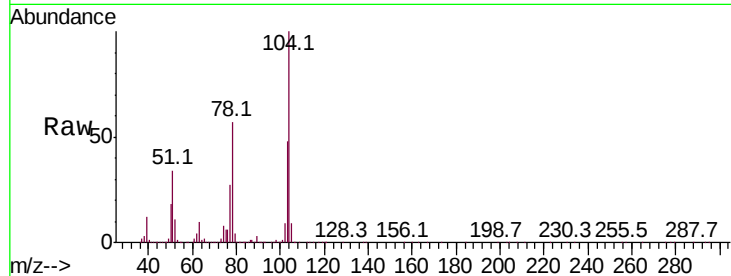
#61
Stvrene
Concen: 13.564 ppbv
RT: 13.52 min Scan# 3337
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.5	46.2	69.2
103	48.3	38.3	57.5

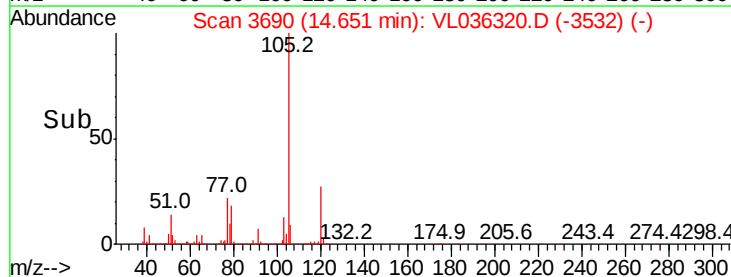
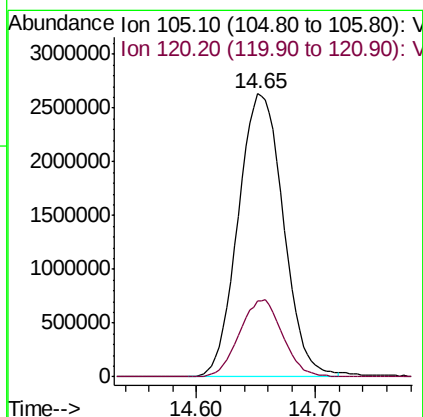
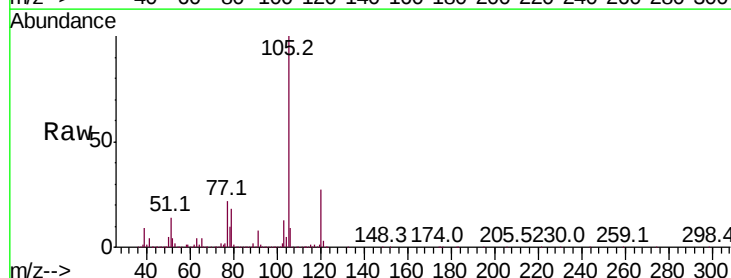
Manual Integrations
APPROVED

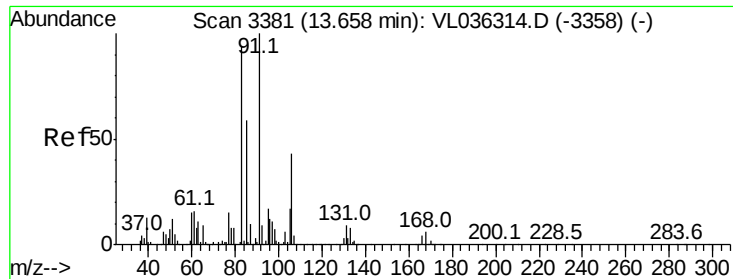
MMDadoda
2/12/2021 1:42:03 PM



#62
Isopropylbenzene
Concen: 11.611 ppbv
RT: 14.65 min Scan# 3690
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 11.161 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3330405

Ion Ratio Lower Upper

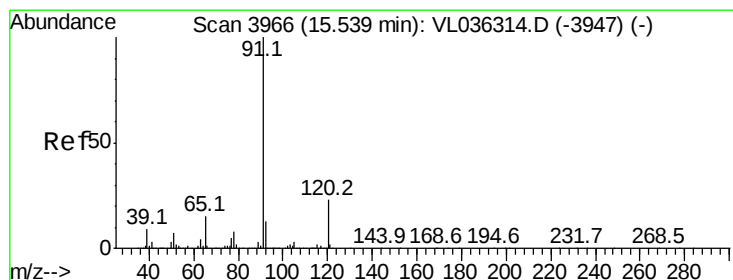
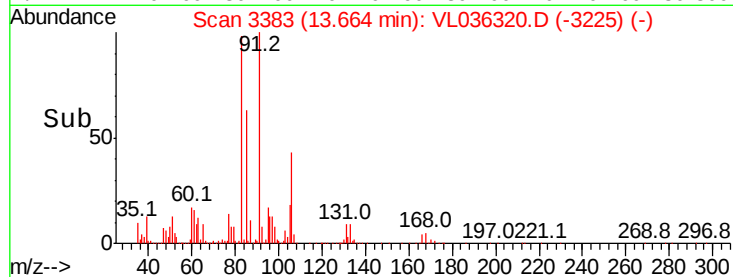
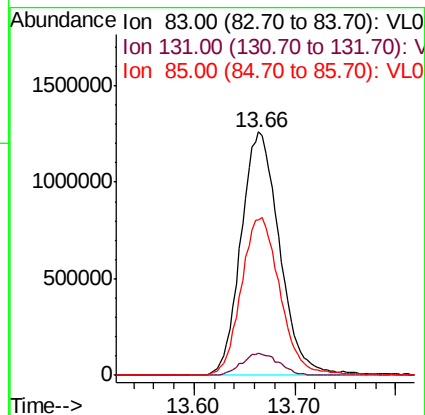
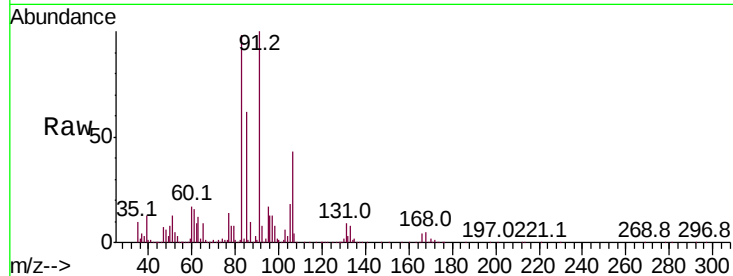
83 100

131 9.0 4.7 14.0

85 66.2 33.0 98.9

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#64

n-propylbenzene

Concen: 12.528 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL036320.D

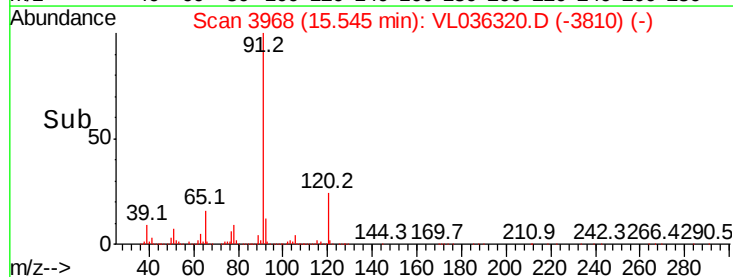
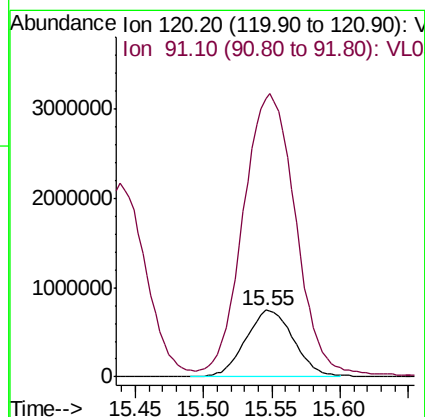
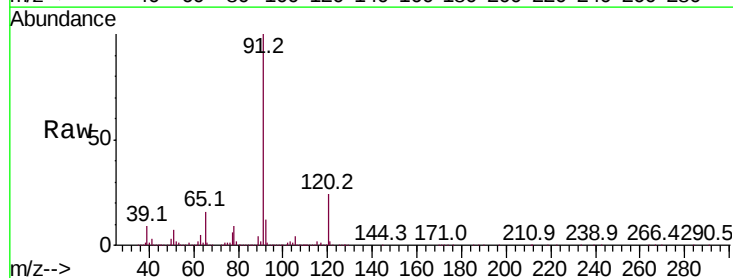
Acq: 10 Feb 2021 15:19

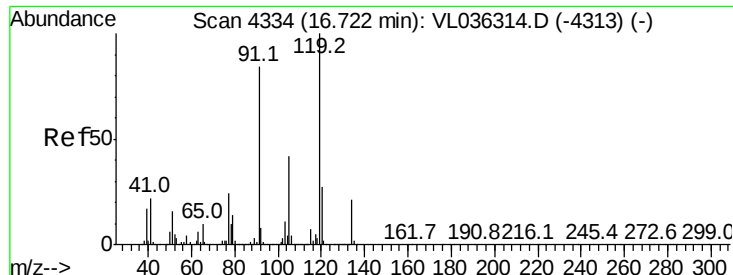
Tgt Ion:120 Resp: 1834060

Ion Ratio Lower Upper

120 100

91 465.7 387.2 580.8





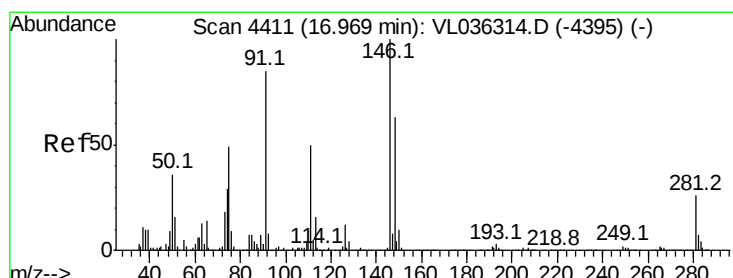
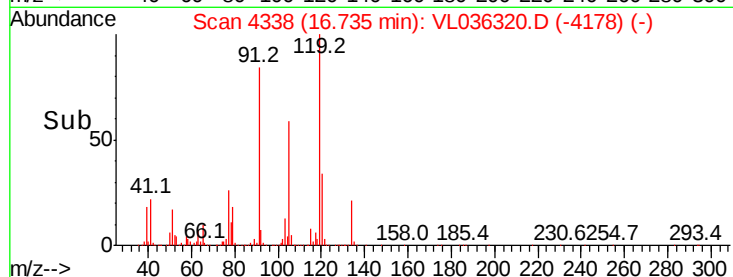
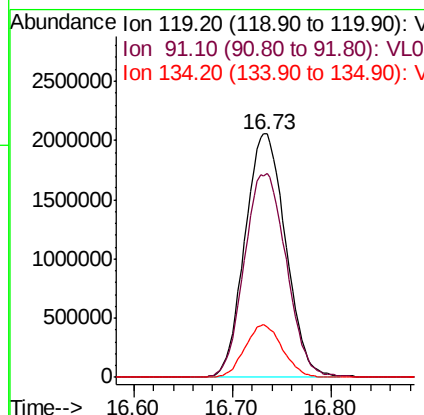
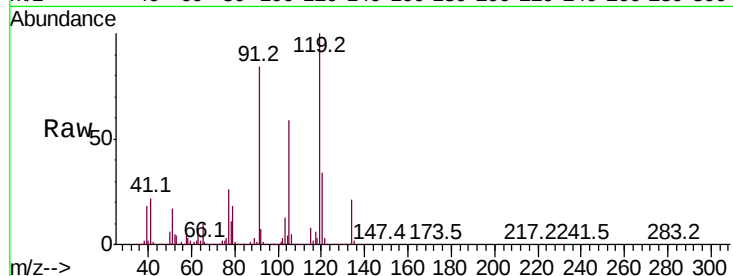
#65
tert-Butylbenzene
Concen: 11.627 ppbv
RT: 16.73 min Scan# 4338
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
91	86.5	70.5	105.7
134	19.9	15.8	23.8

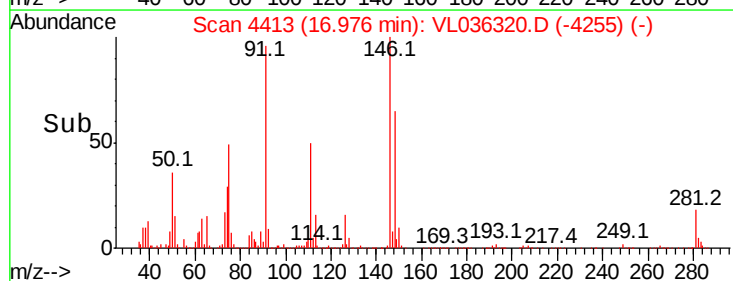
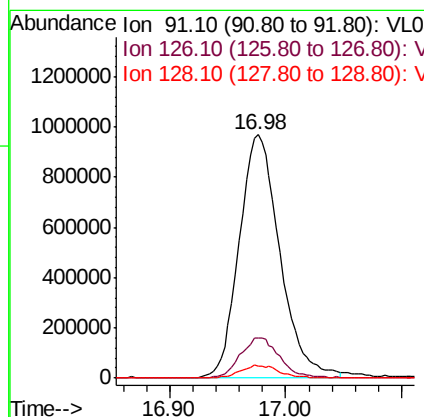
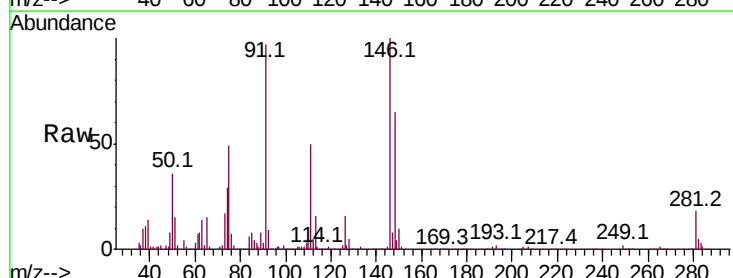
Manual Integrations
APPROVED

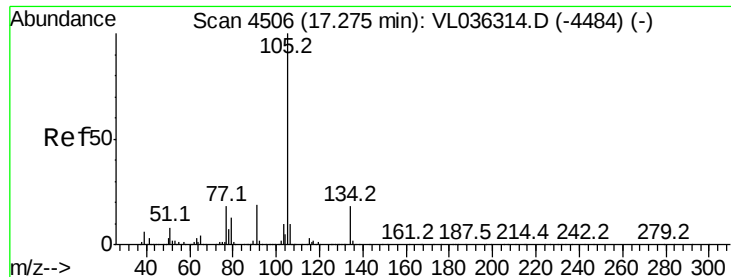
MMDadoda
2/12/2021 1:42:03 PM



#66
Benzyl Chloride
Concen: 18.220 ppbv
RT: 16.98 min Scan# 4413
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.4	12.9	19.3
128	5.1	4.2	6.2





#67

sec-Butylbenzene

Concen: 11.143 ppbv

RT: 17.28 min Scan# 4509

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8351156

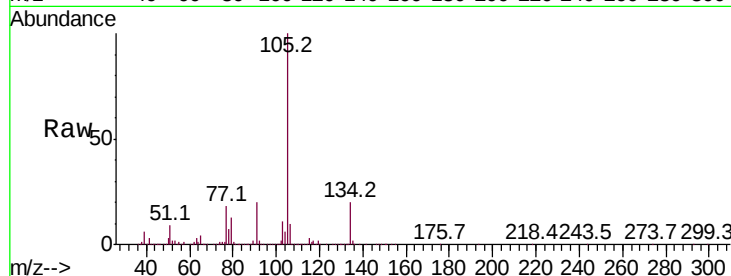
Ion Ratio Lower Upper

105 100

134 18.6 14.2 21.4

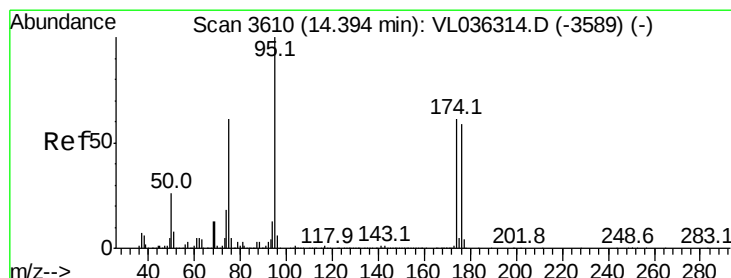
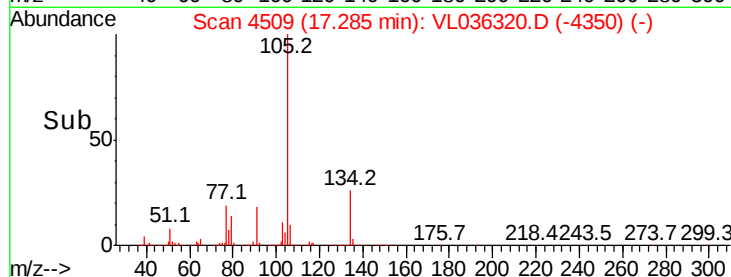
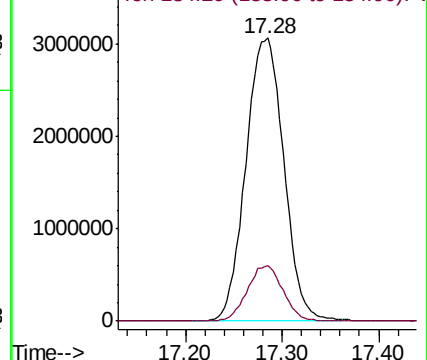
Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



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: 10.306 ppbv

RT: 14.40 min Scan# 3612

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

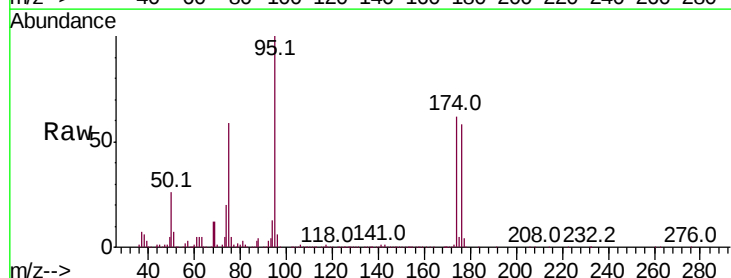
Tgt Ion: 95 Resp: 2781443

Ion Ratio Lower Upper

95 100

174 62.0 49.8 74.6

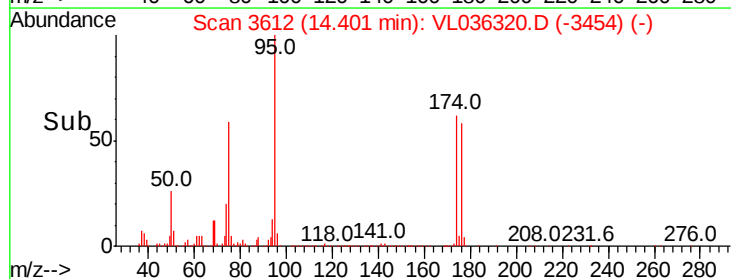
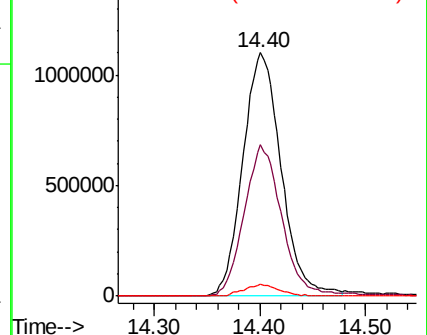
175 4.6 3.7 5.5

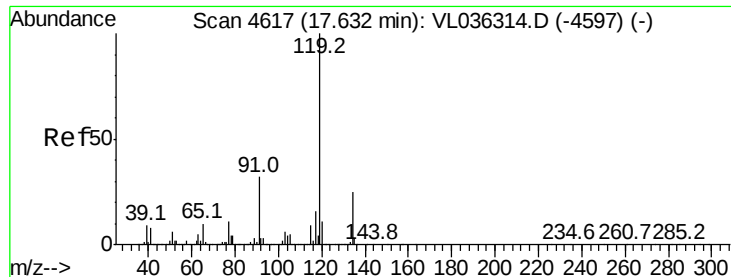


Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





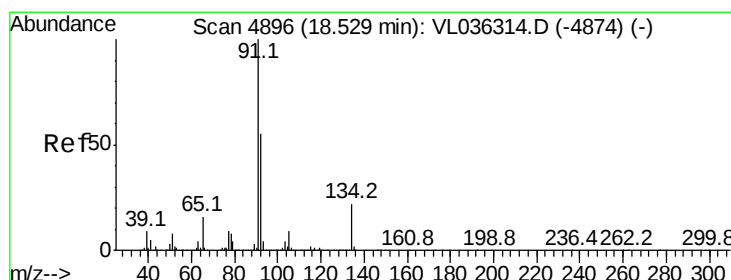
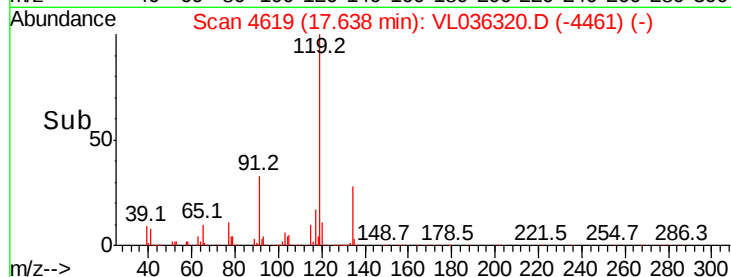
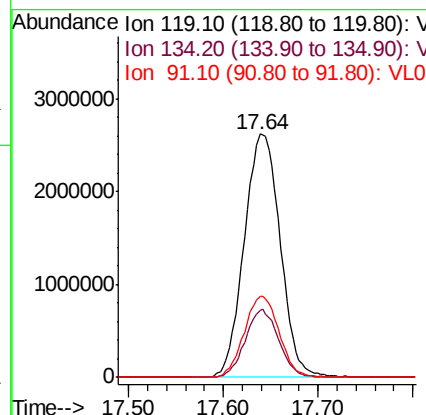
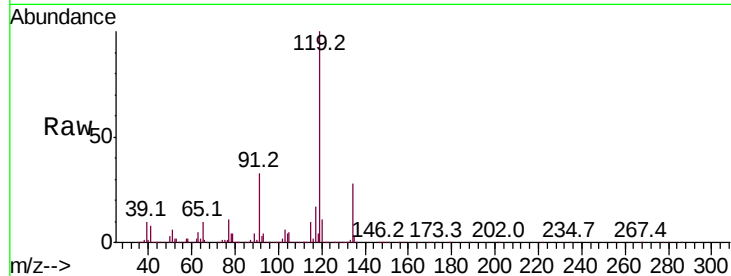
#69
p-Isopropyltoluene
Concen: 11.639 ppbv
RT: 17.64 min Scan# 4619
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.1	30.1
91	32.3	25.8	38.6

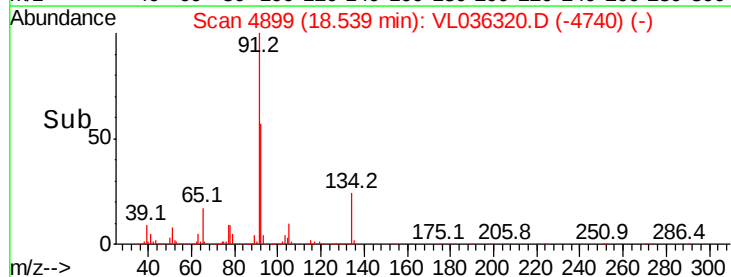
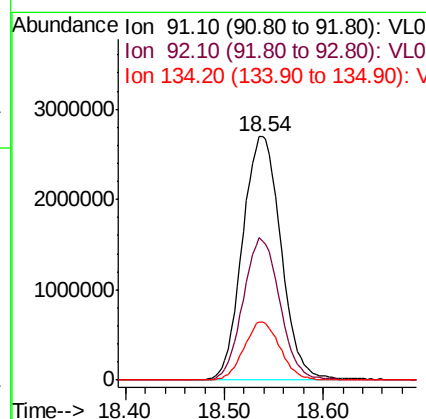
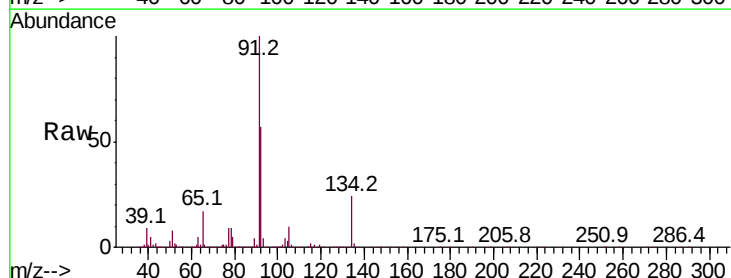
Manual Integrations
APPROVED

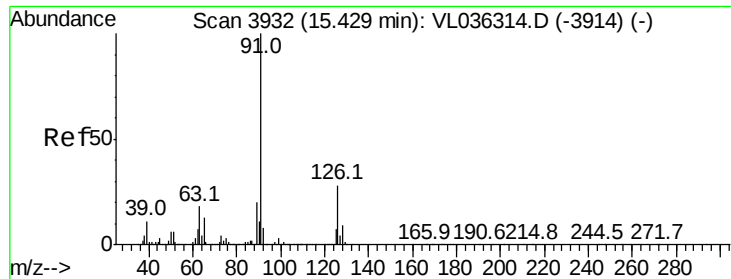
MMDadoda
2/12/2021 1:42:03 PM



#70
n-Butylbenzene
Concen: 11.477 ppbv
RT: 18.54 min Scan# 4899
Delta R.T. 0.01 min
Lab File: VL036320.D
Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.0	43.7	65.5
134	22.5	17.4	26.0





#71

2-Chlorotoluene

Concen: 11.781 ppbv

RT: 15.44 min Scan# 3935

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5517366

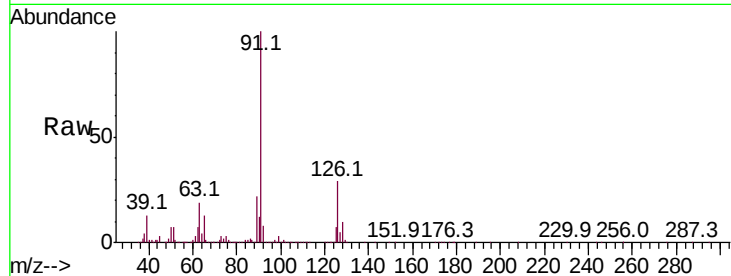
Ion Ratio Lower Upper

91 100

126 29.6 11.5 46.1

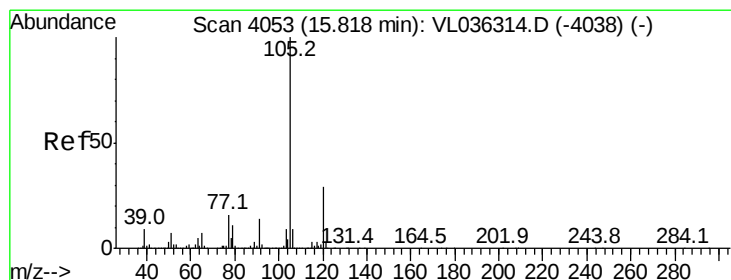
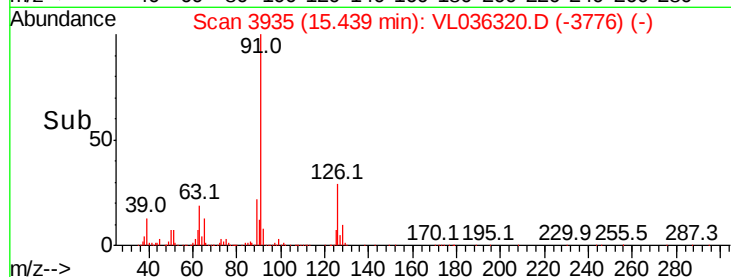
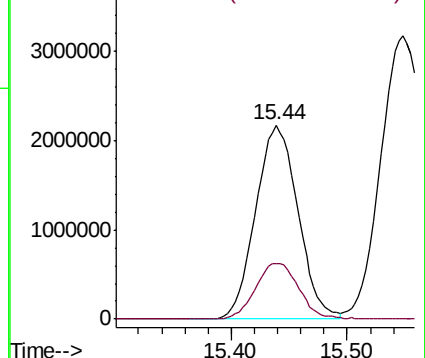
Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 12.353 ppbv

RT: 15.82 min Scan# 4055

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion: 105 Resp: 5586439

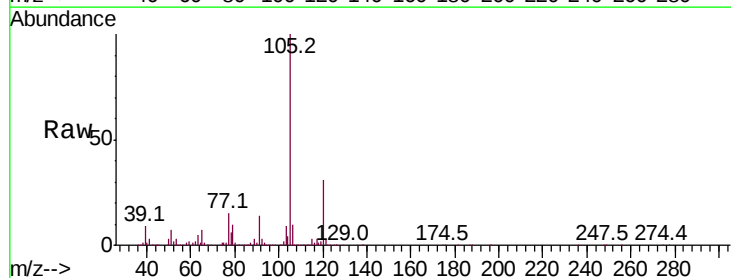
Ion Ratio Lower Upper

105 100

120 30.8 23.2 34.8

91 13.5 11.0 16.4

77 15.2 12.2 18.4

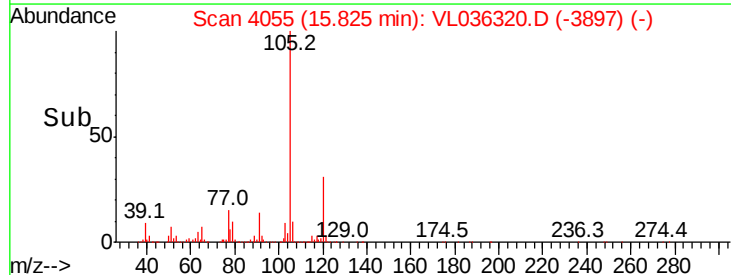
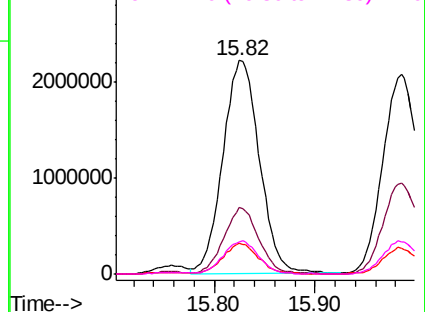


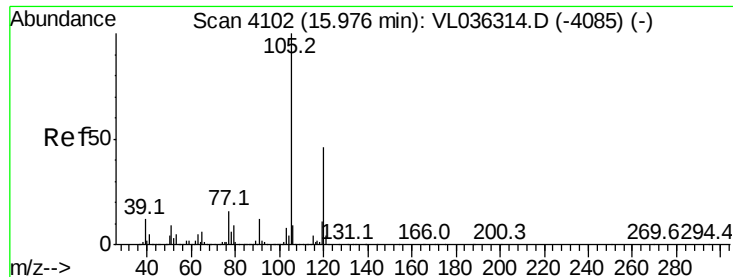
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 12.044 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 5192328

Ion Ratio Lower Upper

105 100

120 45.9

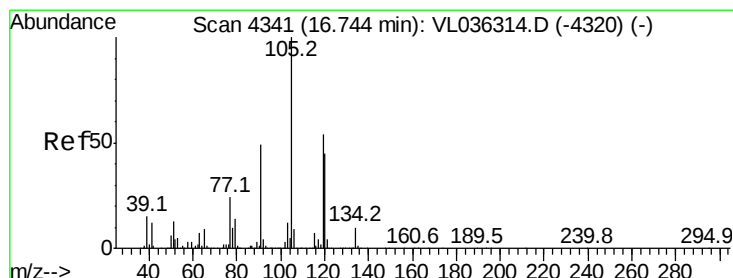
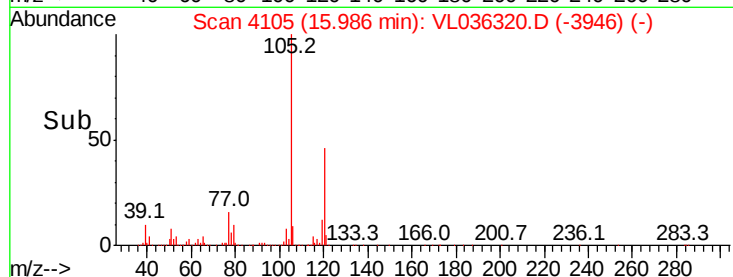
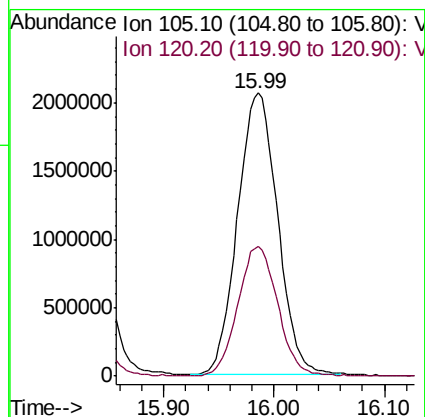
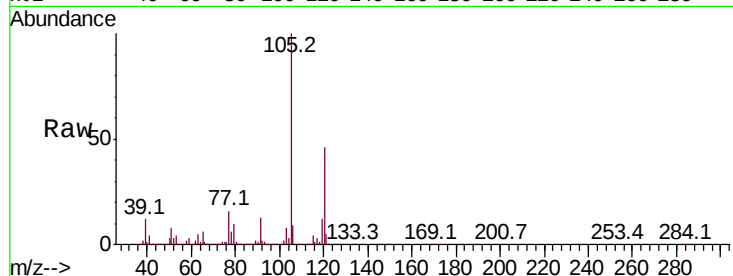
36.9 55.3

Manual Integrations

APPROVED

MMDadoda

2/12/2021 1:42:03 PM



#74

1,2,4-Trimethylbenzene

Concen: 11.617 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion:105 Resp: 5137126

Ion Ratio Lower Upper

105 100

120 47.9

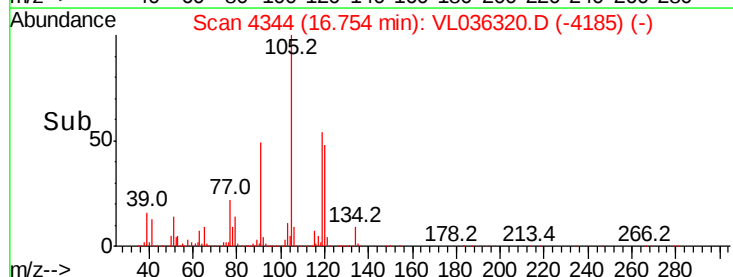
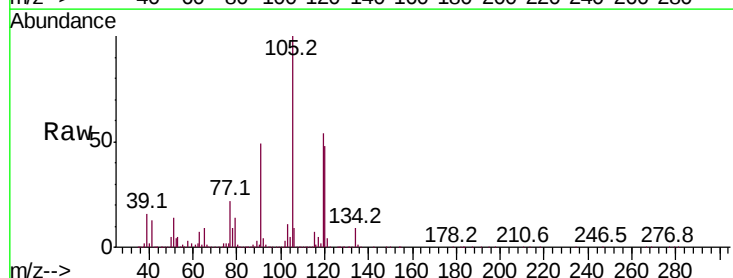
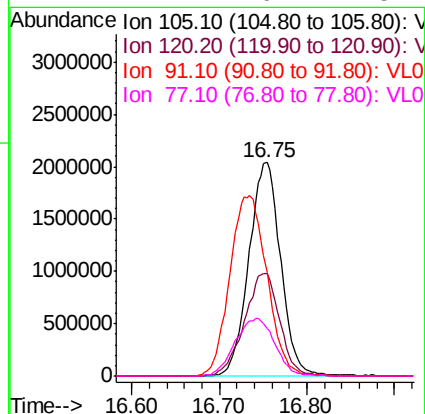
35.8 53.6

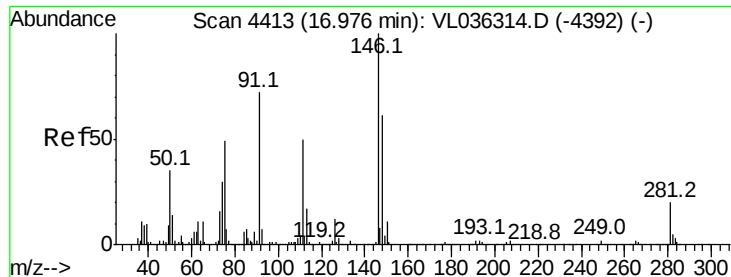
91 48.6

39.8 59.6

77 22.1

19.1 28.7





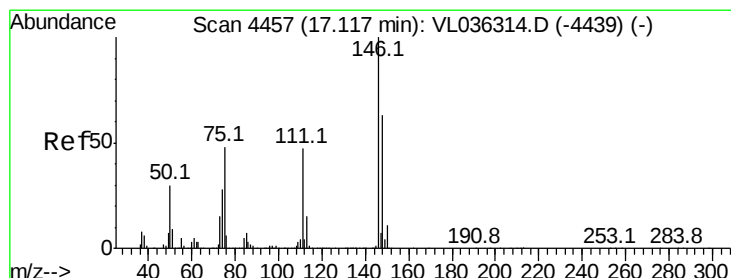
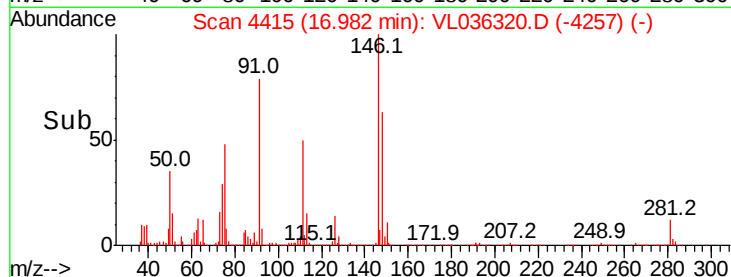
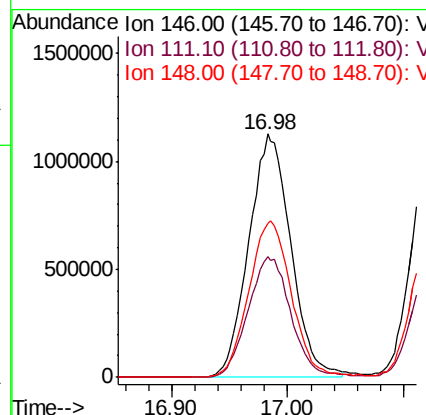
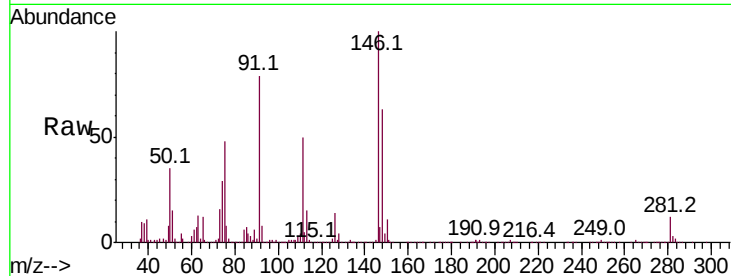
#75
 1,3-Dichlorobenzene
 Concen: 11.977 ppbv
 RT: 16.98 min Scan# 4415
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	24.9	74.6
148	65.4	31.9	95.9

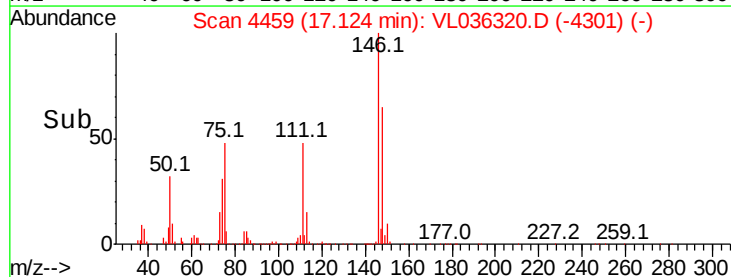
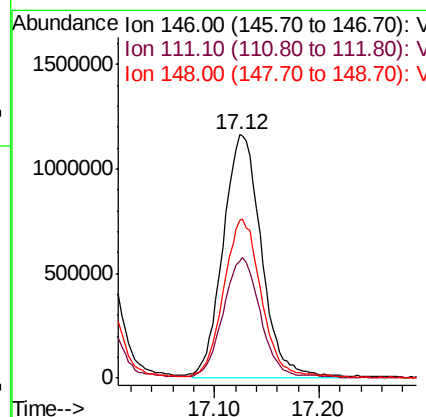
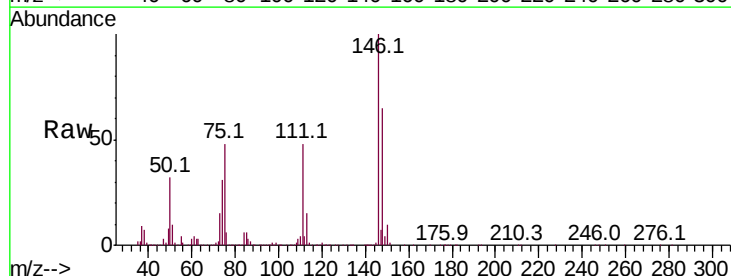
Manual Integrations
 APPROVED

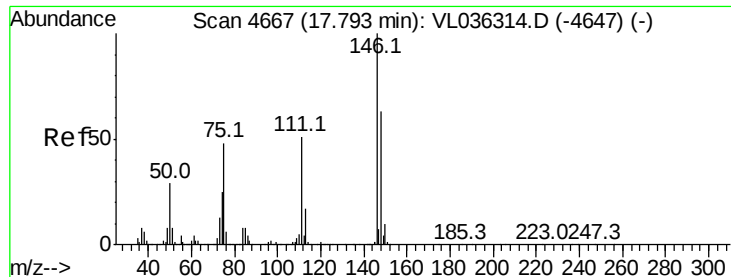
MMDadoda
 2/12/2021 1:42:03 PM



#76
 1,4-Dichlorobenzene
 Concen: 12.722 ppbv m
 RT: 17.12 min Scan# 4459
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.6	71.0
148	64.0	31.6	95.0





#77

1,2-Dichlorobenzene

Concen: 12.105 ppbv

RT: 17.81 min Scan# 4672

Delta R.T. 0.02 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 2804202

Ion Ratio Lower Upper

146 100

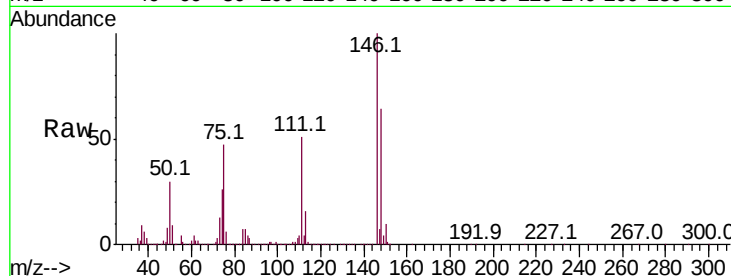
111 52.4 25.9 77.8

148 64.6 32.5 97.4

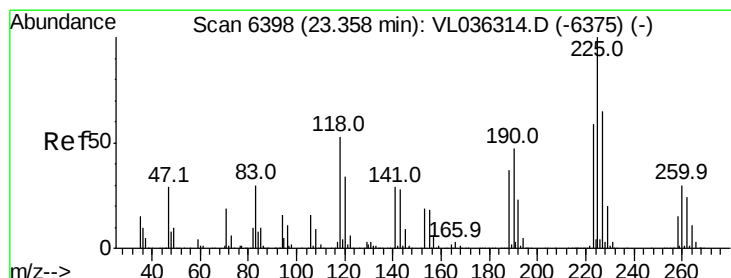
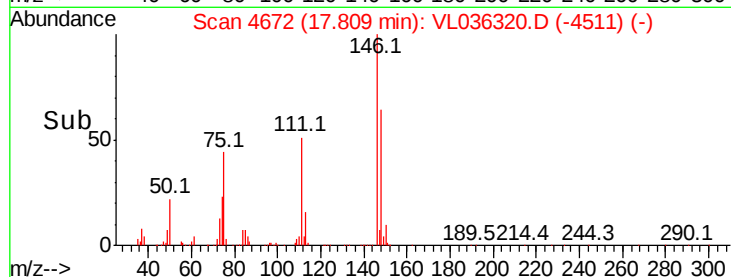
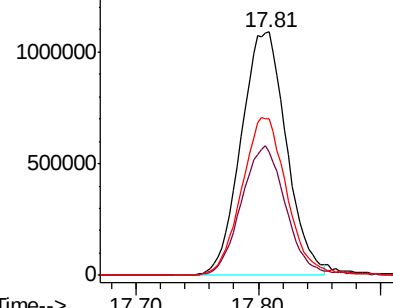
Manual Integrations
APPROVED

MMDadoda

2/12/2021 1:42:03 PM



Abundance Ion 146.00 (145.70 to 146.70): V
1500000
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.882 ppbv

RT: 23.36 min Scan# 6400

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

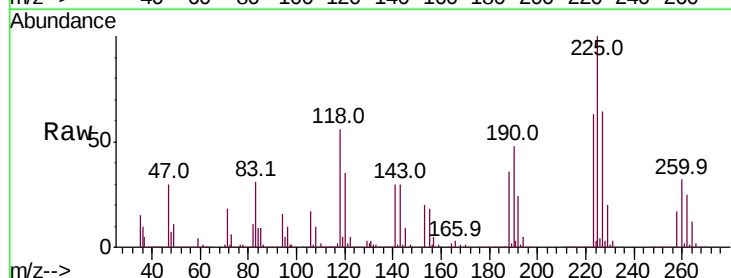
Tgt Ion:225 Resp: 2016304

Ion Ratio Lower Upper

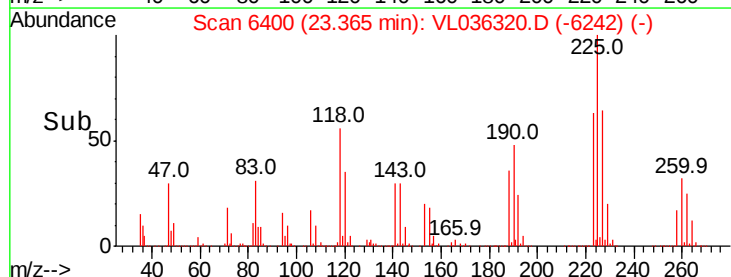
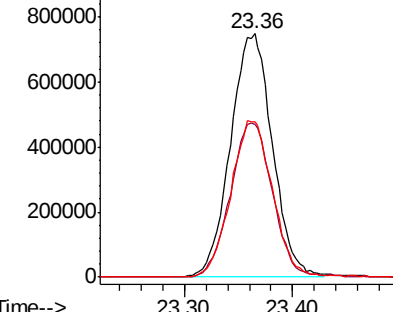
225 100

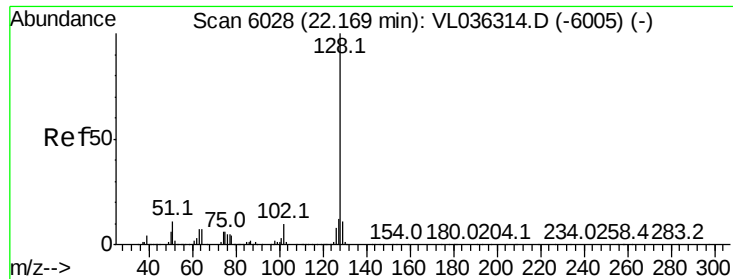
223 64.3 50.8 76.2

227 64.4 52.2 78.2



Abundance Ion 224.90 (224.60 to 225.60): V
1000000
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 15.497 ppbv

RT: 22.18 min Scan# 6032

Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Instrument :

MSVOA_L

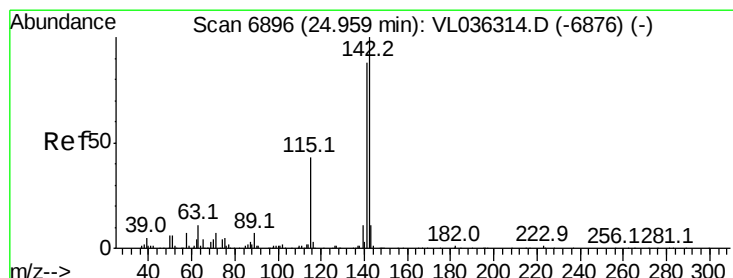
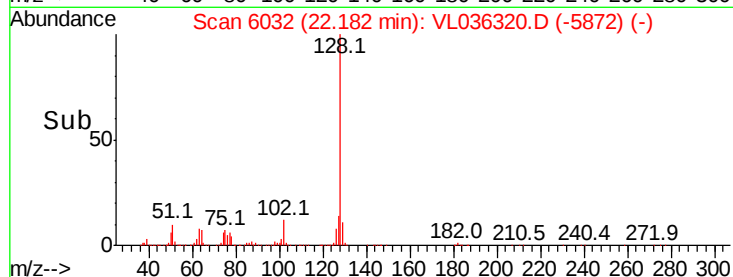
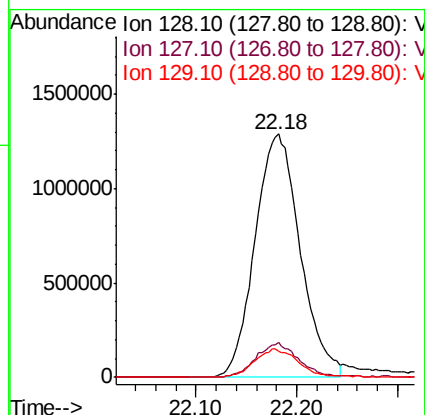
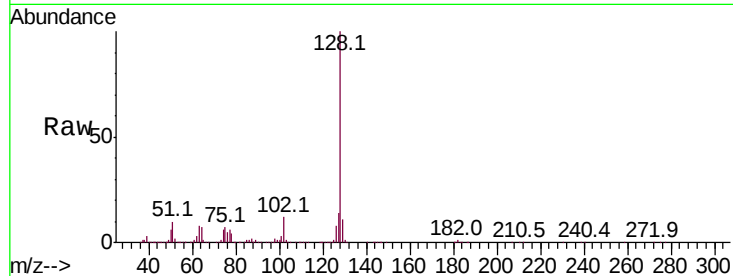
ClientSampleId :

VSTDIC015

Tot Ion:	128	Resp:	4005812
Ion	Ratio	Lower	Upper
128	100		
127	14.4	9.6	14.4#
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
2/12/2021 1:42:03 PM



#80

Naphthalene, 2-methyl-

Concen: 17.715 ppbv

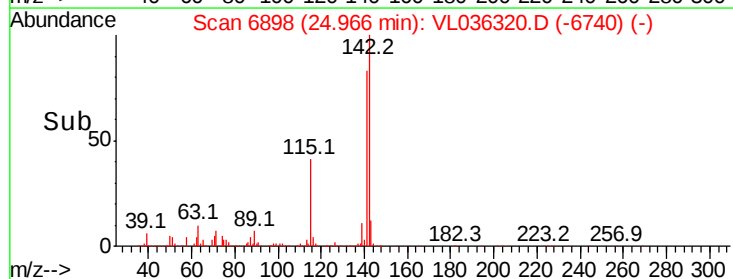
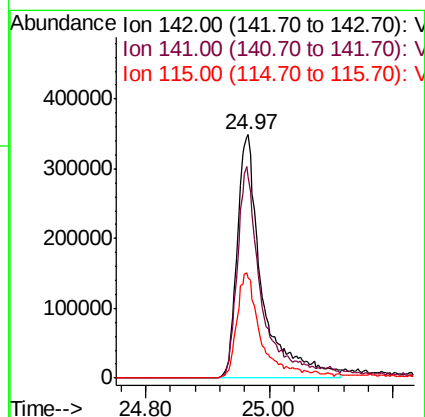
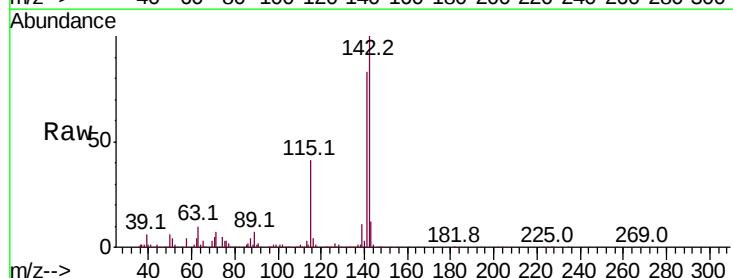
RT: 24.97 min Scan# 6898

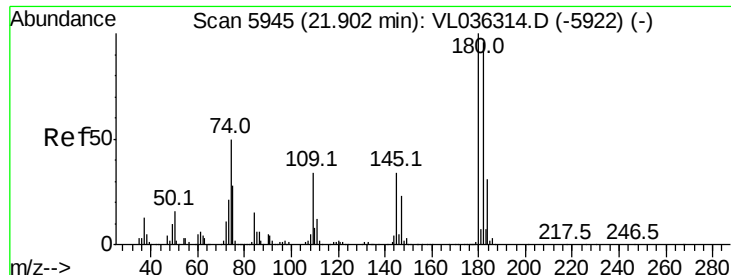
Delta R.T. 0.01 min

Lab File: VL036320.D

Acq: 10 Feb 2021 15:19

Tgt Ion:	142	Resp:	977068
Ion	Ratio	Lower	Upper
142	100		
141	87.7	64.4	96.6
115	44.0	34.6	51.8





#81
 1,2,4-Trichlorobenzene
 Concen: 14.018 ppbv
 RT: 21.91 min Scan# 5948
 Delta R.T. 0.01 min
 Lab File: VL036320.D
 Acq: 10 Feb 2021 15:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.2	80.2	120.4
184	31.5	25.0	37.6

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:03 PM

