Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL061521\
Data File : VL037156.D
Acq On : 15 Jun 2021 11:37
Operator : SY/AP
Sample : VL0615ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 02:01:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jun 1
QLast Update : Mon Jun 14 16:49:11 2021
Response via : Initial Calibration

Instrument : MSVOA_L
ClientSampleId : VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1610236	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4794680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4614955m	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3519078	10.35	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 103.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	2653435	10.347	ppbv	98
3) Chlorodifluoromethane	3.00	51	2774785	9.186	ppbv	100
4) Chloromethane	3.15	50	928743	9.024	ppbv	94
5) Vinyl Chloride	3.27	62	1032482	10.369	ppbv	98
6) Bromomethane	3.48	94	626589	9.892	ppbv	97
7) Chloroethane	3.56	64	368676	9.489	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	2617472	9.553	ppbv	100
9) Propene	3.02	41	889147	8.924	ppbv	100
10) Heptane	8.14	43	2259210	9.511	ppbv	99
11) Trichlorofluoromethane	3.96	101	2765011	9.503	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1936714	9.702	ppbv	99
13) Ethanol	3.62	45	110983	8.062	ppbv	88
14) Bromoethene	3.75	108	838083	9.703	ppbv	98
15) Acetone	3.86	43	1340854	6.959	ppbv	98
16) 1,3-Butadiene	3.33	39	967725	9.302	ppbv	97
17) tert-Butyl alcohol	4.30	59	1659050	9.949	ppbv	100
18) 1,1-Dichloroethene	4.30	96	855968	9.505	ppbv	95
19) Isopropyl Alcohol	3.98	45	997589	9.435	ppbv #	96
20) Methylene Chloride	4.36	84	695151	8.278	ppbv	97
21) Allyl Chloride	4.42	41	1232364	9.574	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	862530	9.831	ppbv	96
23) Vinyl Acetate	5.09	43	2352442	9.297	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1992324	9.811	ppbv	99
25) Ethyl Acetate	5.69	43	3552505	9.410	ppbv	99
26) Hexane	5.70	57	1718604	9.153	ppbv	99
27) Carbon Disulfide	4.56	76	2004654	10.530	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	2255309	9.590	ppbv	98
29) Chloroform	5.77	83	2832637	9.345	ppbv	99
30) Cyclohexane	7.15	84	1517409	9.270	ppbv	98
31) cis-1,2-Dichloroethene	5.56	61	1732122	9.572	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	2931497	10.532	ppbv	100
34) 2-Butanone	5.26	43	1631780	9.062	ppbv	100
35) Carbon Tetrachloride	7.03	117	3182353	10.797	ppbv	99
36) Benzene	6.91	78	3563728	9.367	ppbv	99
37) 1,2-Dichloroethane	6.32	62	2123669	9.613	ppbv	99
38) Trichloroethene	7.85	130	1572115	9.562	ppbv	98
39) 1,2-Dichloropropane	7.63	63	1356417	9.338	ppbv	97
40) 1,4-Dioxane	7.85	88	338099	8.312	ppbv #	1
41) Tetrahydrofuran	6.07	42	799545	9.124	ppbv	98
42) Bromodichloromethane	7.81	83	3019501	9.920	ppbv	100
43) Methyl Methacrylate	8.03	69	1316559	10.087	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL061521\
Data File : VL037156.D
Acq On : 15 Jun 2021 11:37
Operator : SY/AP
Sample : VL0615ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

Quant Time: Jun 16 02:01:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jun 1
QLast Update : Mon Jun 14 16:49:11 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5861159	9.204	ppbv	100
45) t-1,3-Dichloropropene	9.30	75	1339711	11.390	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	1704412	10.860	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	1511623	9.175	ppbv	99
48) Dibromochloromethane	10.32	129	2735021	10.290	ppbv	100
49) Bromoform	13.06	173	2147588	10.343	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2434663	9.191	ppbv	99
51) 2-Hexanone	10.16	43	1234373	9.336	ppbv	97
52) Tetrachloroethene	11.24	164	1488154	9.458	ppbv	99
53) Toluene	9.82	91	4283887	9.473	ppbv	100
54) 1,2-Dibromoethane	10.63	107	2293767	9.508	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1848023	9.182	ppbv	98
57) Chlorobenzene	12.17	112	3285445	8.884	ppbv	98
58) Ethyl Benzene	12.73	91	5631954	9.009	ppbv	99
59) m/p-Xylene	13.01	91	9519957m	17.921	ppbv	
60) o-Xylene	13.71	91	4516596	8.855	ppbv	99
61) Styrene	13.55	104	2603937	9.684	ppbv	100
62) Isopropylbenzene	14.69	105	6265433	8.618	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2935283	8.851	ppbv	100
64) n-propylbenzene	15.58	120	1668374	8.998	ppbv	98
65) tert-Butylbenzene	16.76	119	5626438	8.539	ppbv	100
66) Benzyl Chloride	17.00	91	215199	7.483	ppbv	99
67) sec-Butylbenzene	17.31	105	7396767	8.449	ppbv	99
69) p-Isopropyltoluene	17.67	119	6456910	8.823	ppbv	99
70) n-Butylbenzene	18.57	91	6067564	9.062	ppbv	100
71) 2-Chlorotoluene	15.47	91	4488980	8.656	ppbv	99
72) 4-Ethyltoluene	15.86	105	5417905	9.144	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4840067	8.613	ppbv	100
74) 1,2,4-Trimethylbenzene	16.78	105	5077239	8.879	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	3043116	8.643	ppbv	99
76) 1,4-Dichlorobenzene	17.16	146	3051435	8.726	ppbv	100
77) 1,2-Dichlorobenzene	17.83	146	2934554	8.453	ppbv	100
78) Hexachloro-1,3-Butadiene	23.39	225	2238179	9.095	ppbv	99
79) Naphthalene	22.22	128	4764209	13.842	ppbv	99
80) Naphthalene,2-methyl-	24.99	142	1396976	16.776	ppbv	97
81) 1,2,4-Trichlorobenzene	21.94	180	2519831	11.510	ppbv	99

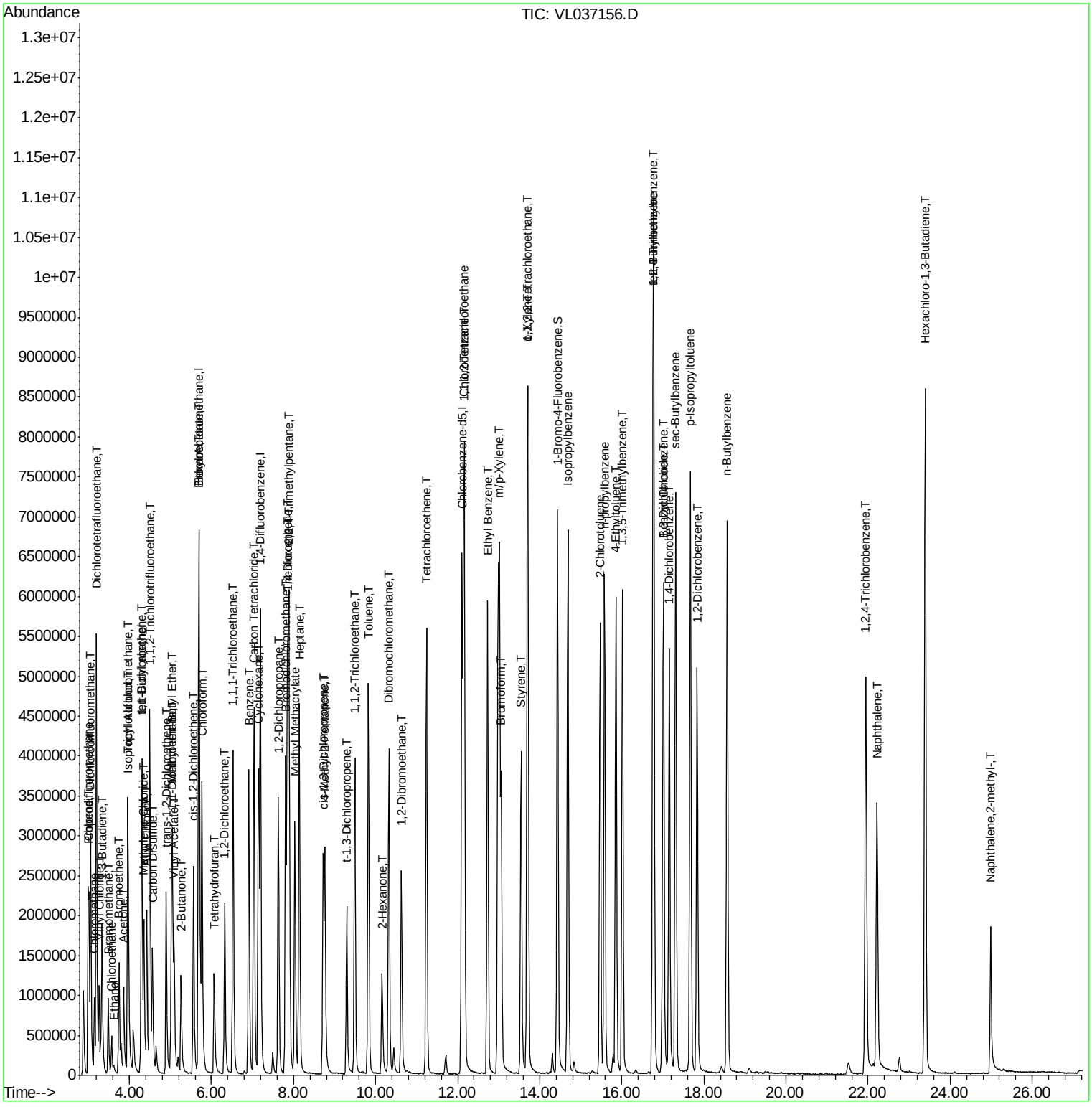
(#) = qualifier out of range (m) = manual integration (+) = signals summed

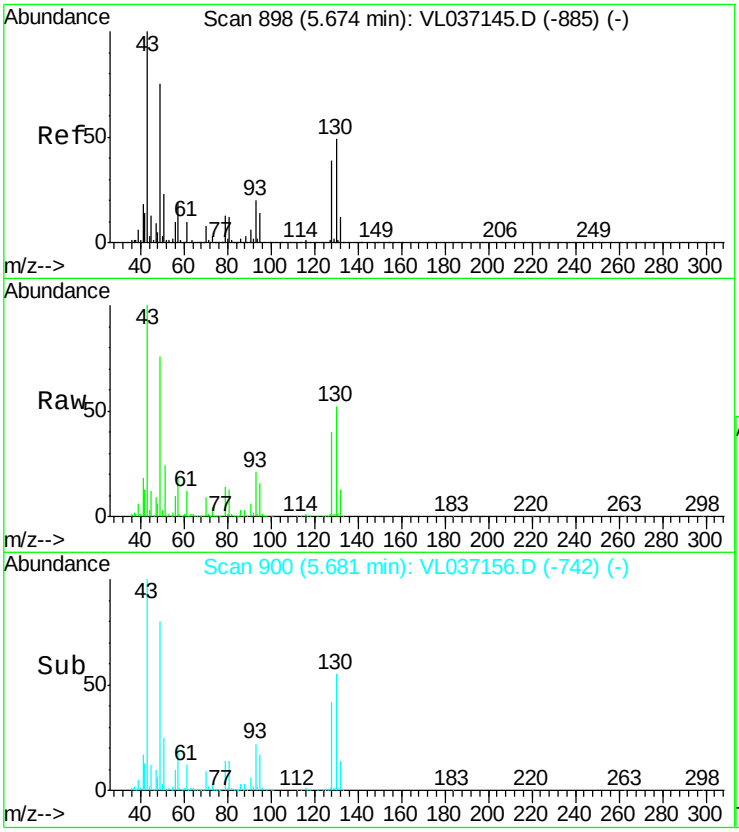
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL061521\
Data File : VL037156.D
Acq On : 15 Jun 2021 11:37
Operator : SY/AP
Sample : VL0615ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 02:01:27 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jun
QLast Update : Mon Jun 14 16:49:11 2021
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

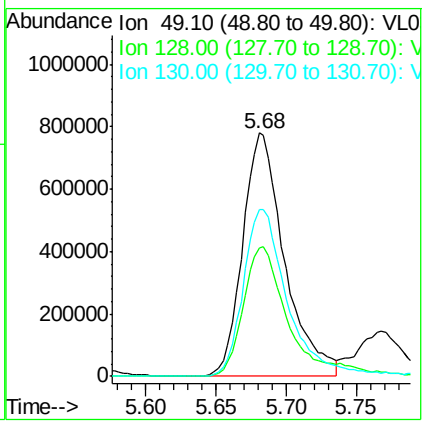




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

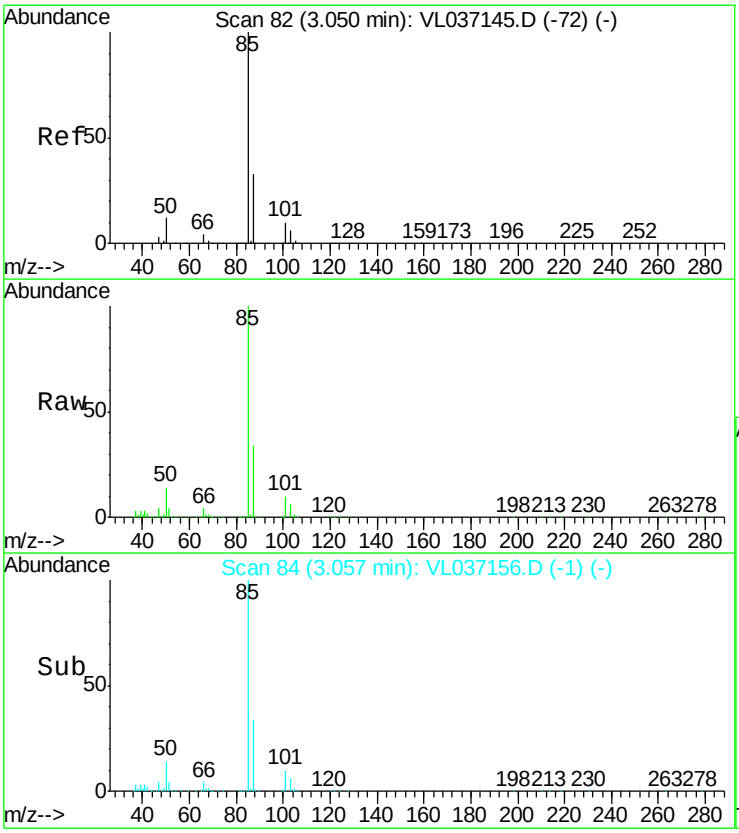
Tgt Ion: 49 Resp: 1610236

Ion	Ratio	Lower	Upper
49	100		
128	59.2	28.8	86.5
130	74.7	36.0	108.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

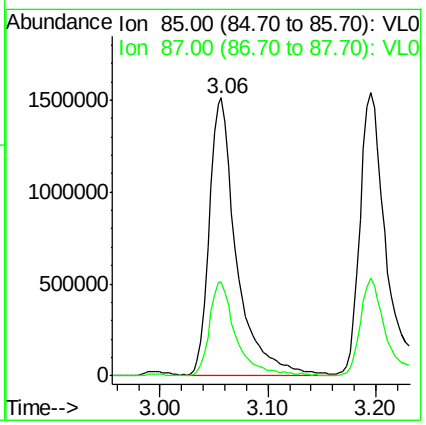
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

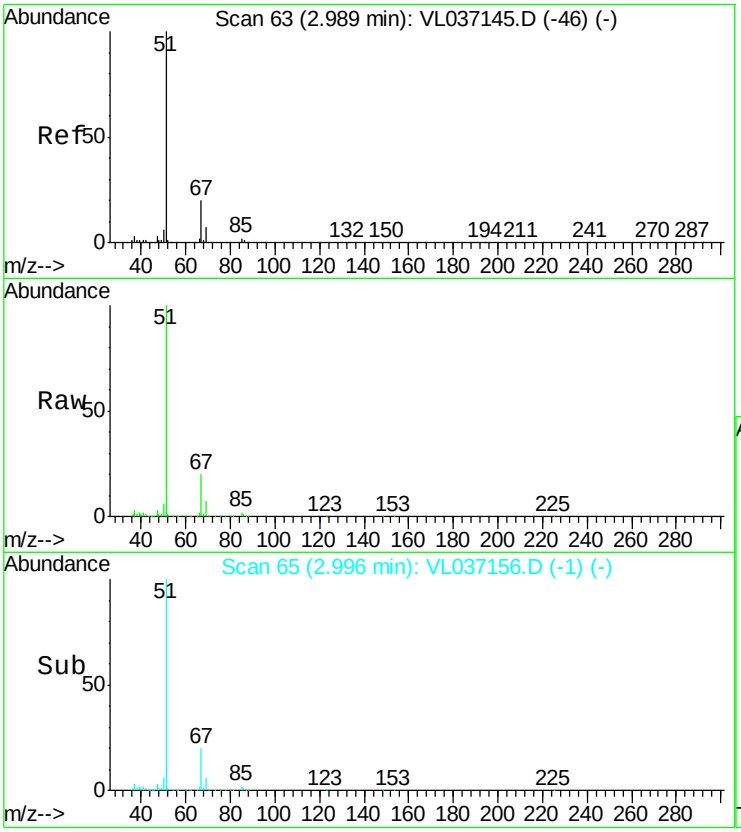


#2
Dichlorodifluoromethane
Concen: 10.347 ppbv
RT: 3.06 min Scan# 84
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 85 Resp: 2653435

Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.4	39.6

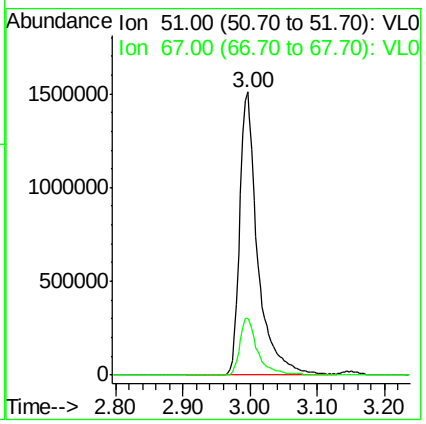




#3
Chlorodifluoromethane
Concen: 9.186 ppbv
RT: 3.00 min Scan# 65
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

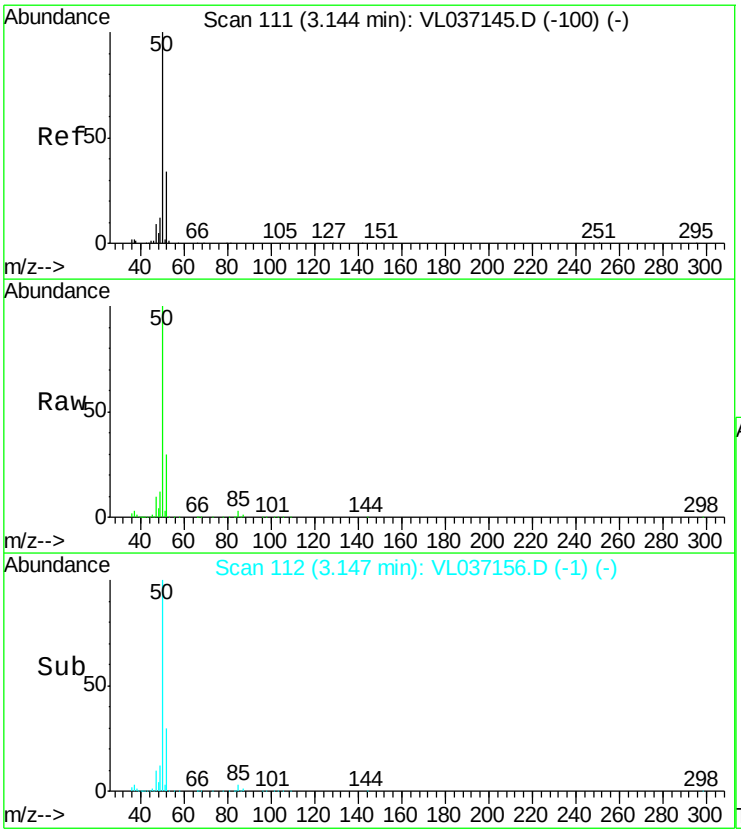
Tgt Ion: 51 Resp: 2774785

Ion	Ratio	Lower	Upper
51	100		
67	20.1	15.9	23.9



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

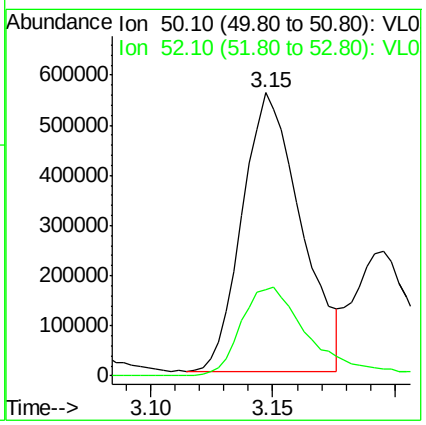
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

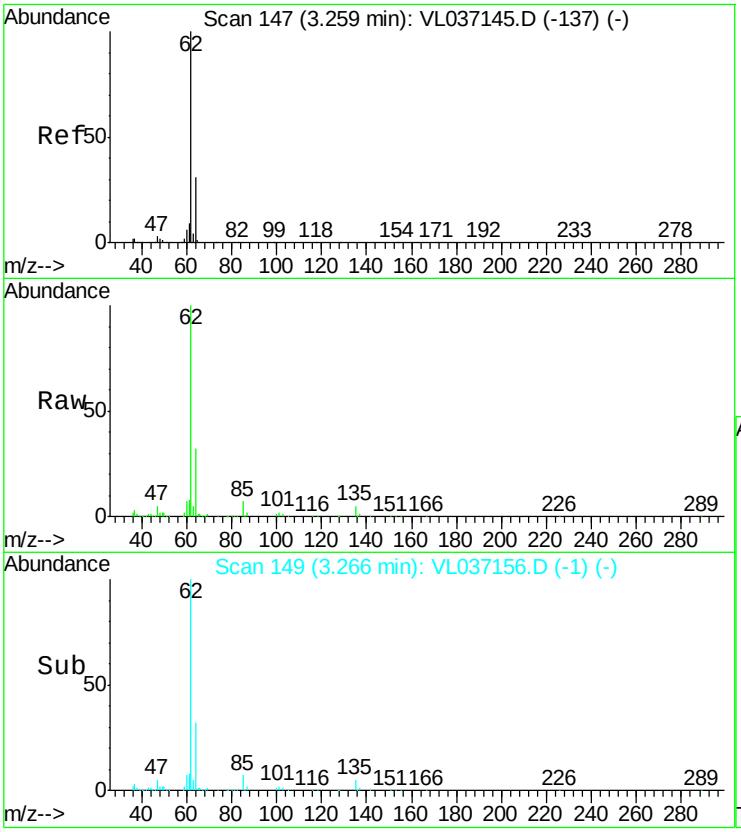


#4
Chloromethane
Concen: 9.024 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 50 Resp: 928743

Ion	Ratio	Lower	Upper
50	100		
52	30.8	27.4	41.2

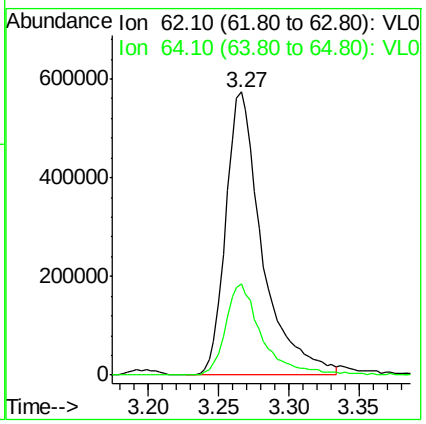




#5
Vinyl Chloride
Concen: 10.369 ppbv
RT: 3.27 min Scan# 149
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

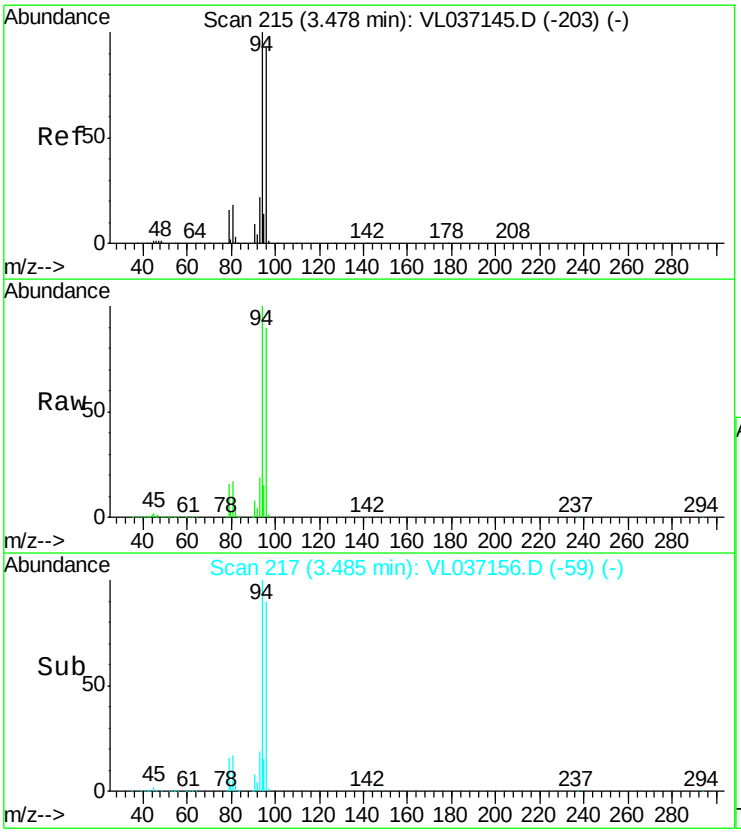
Tgt Ion: 62 Resp: 1032482

Ion	Ratio	Lower	Upper
62	100		
64	32.4	25.2	37.8



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

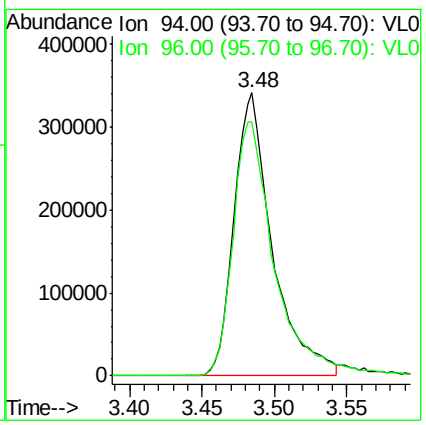
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

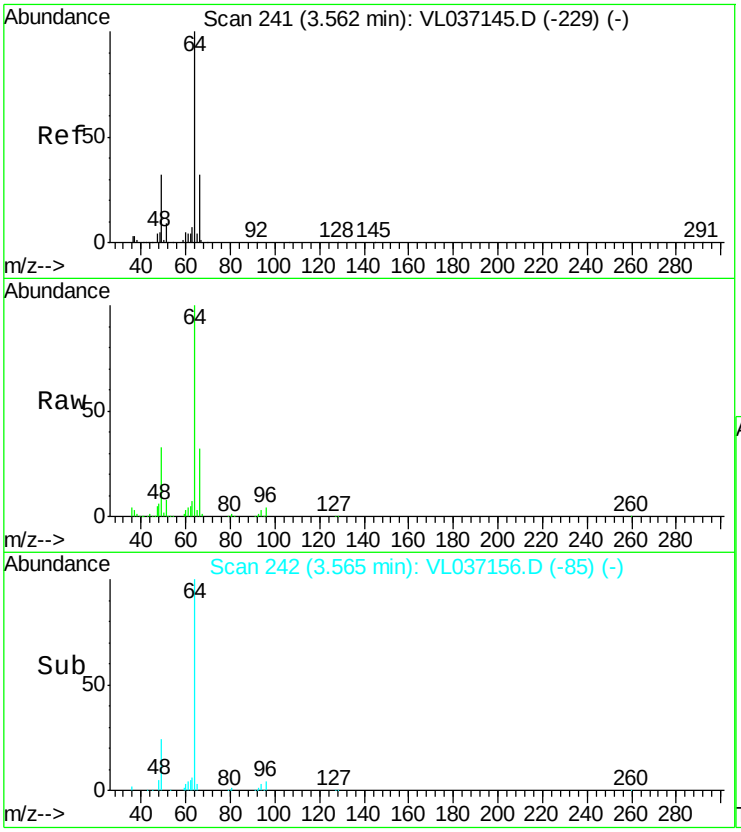


#6
Bromomethane
Concen: 9.892 ppbv
RT: 3.48 min Scan# 217
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 94 Resp: 626589

Ion	Ratio	Lower	Upper
94	100		
96	89.6	74.2	111.2

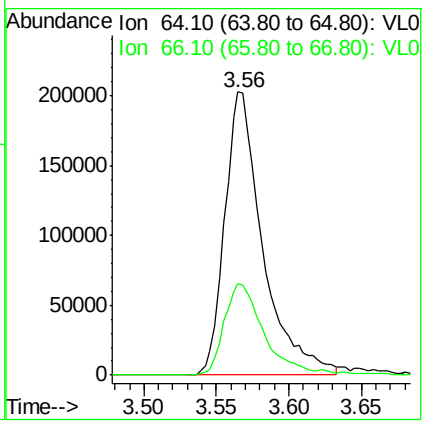




#7
Chloroethane
Concen: 9.489 ppbv
RT: 3.56 min Scan# 242
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

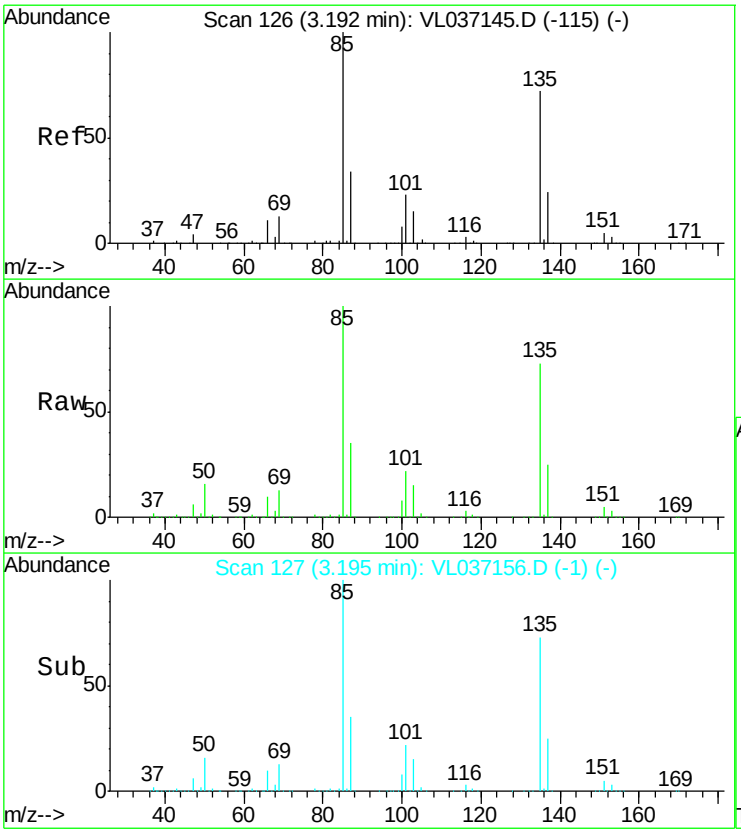
Tgt Ion: 64 Resp: 368676

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.3	37.9



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

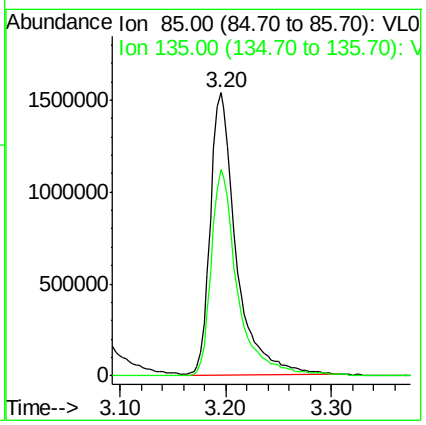
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

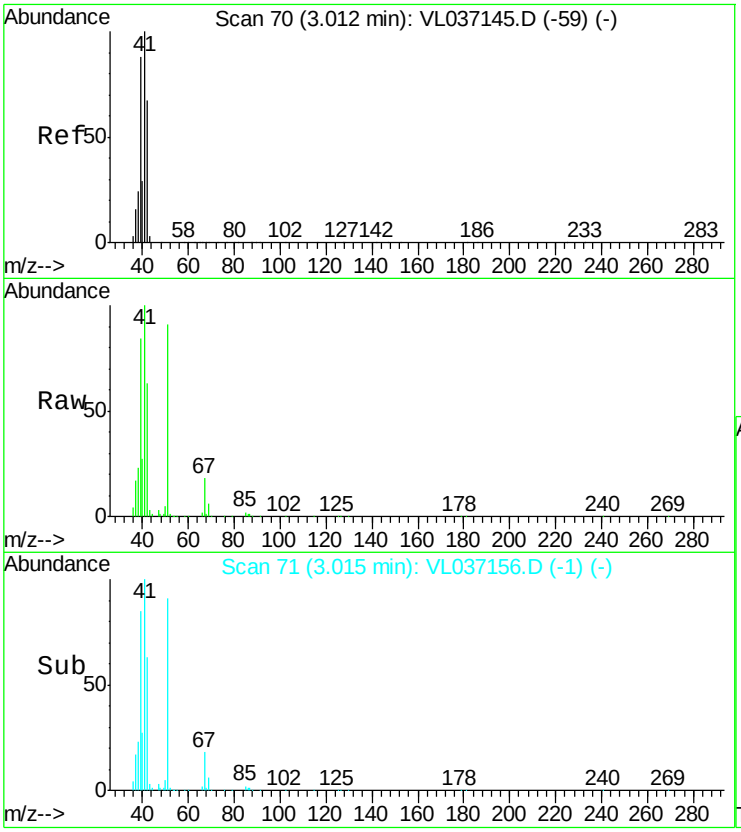


#8
Dichlorotetrafluoroethane
Concen: 9.553 ppbv
RT: 3.20 min Scan# 127
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 85 Resp: 2617472

Ion	Ratio	Lower	Upper
85	100		
135	75.0	60.3	90.5

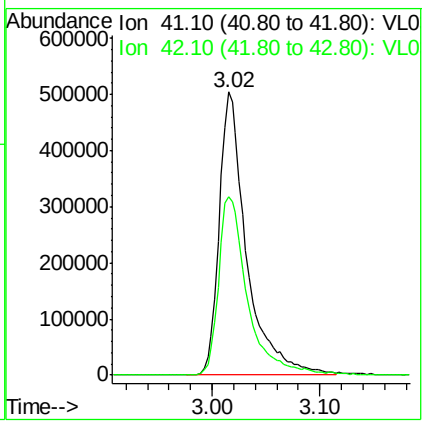




#9
Propene
Concen: 8.924 ppbv
RT: 3.02 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

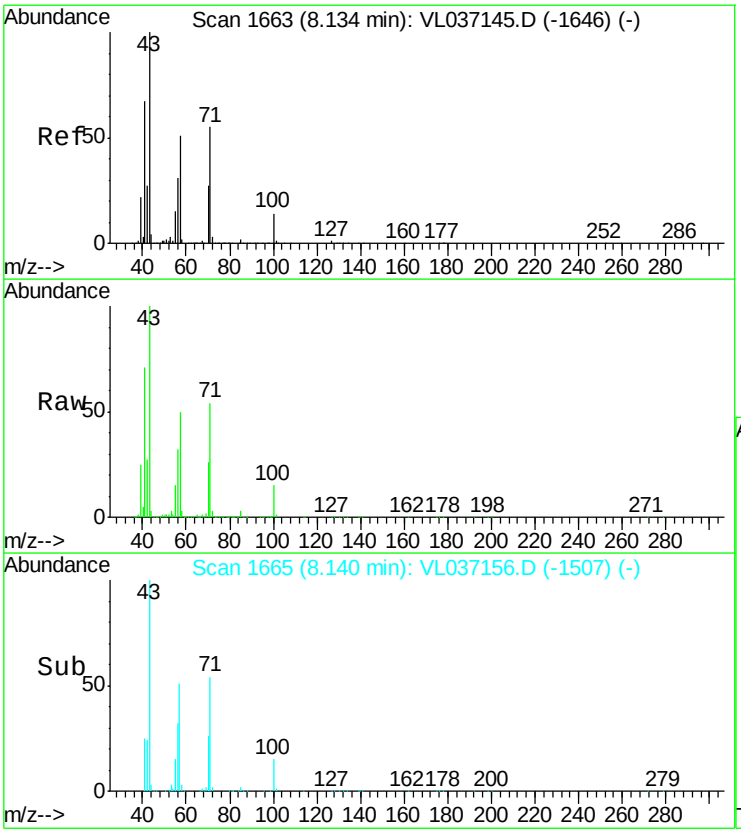
Tgt Ion: 41 Resp: 889147

Ion	Ratio	Lower	Upper
41	100		
42	67.2	53.8	80.8



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

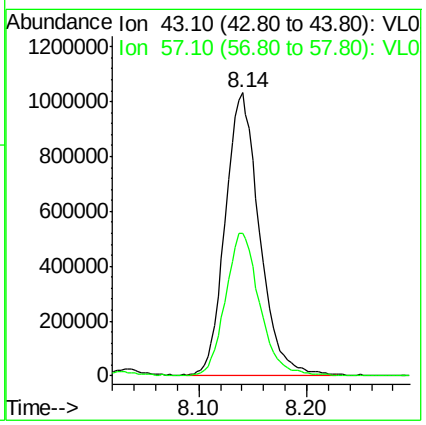
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

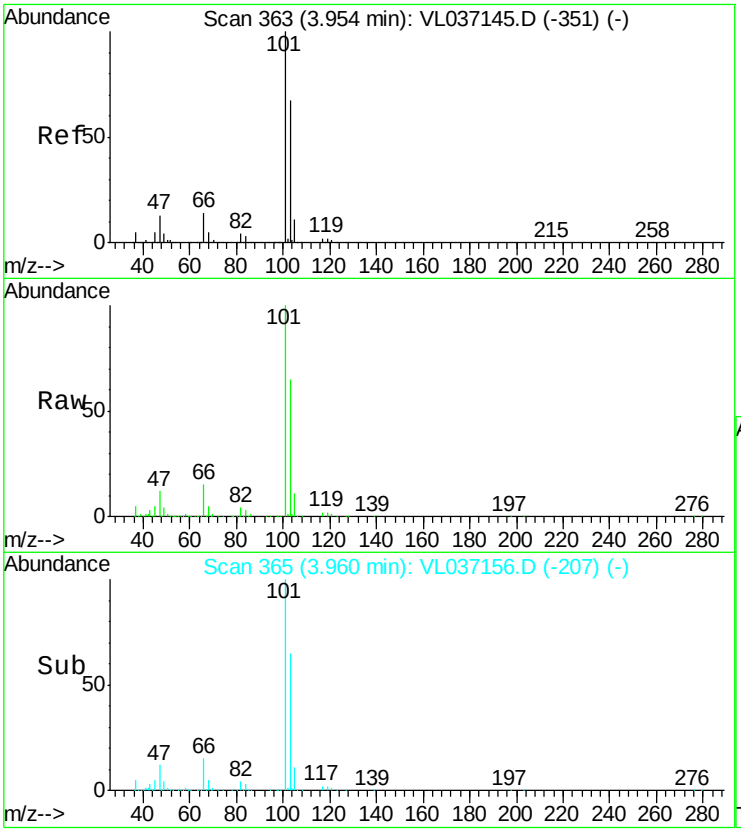


#10
Heptane
Concen: 9.511 ppbv
RT: 8.14 min Scan# 1665
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 43 Resp: 2259210

Ion	Ratio	Lower	Upper
43	100		
57	51.3	40.5	60.7

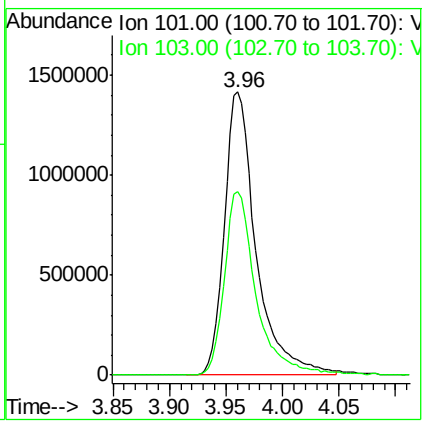




#11
Trichlorofluoromethane
Concen: 9.503 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

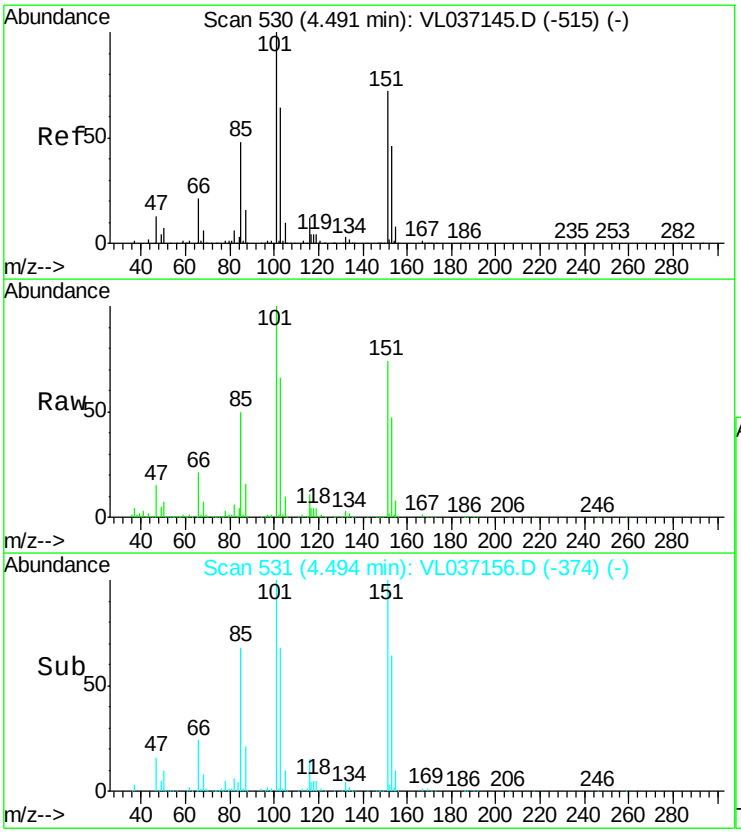
Tgt Ion:101 Resp: 2765011

Ion	Ratio	Lower	Upper
101	100		
103	64.6	53.6	80.4



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

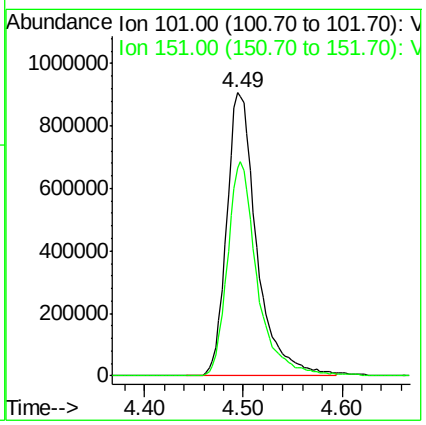
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

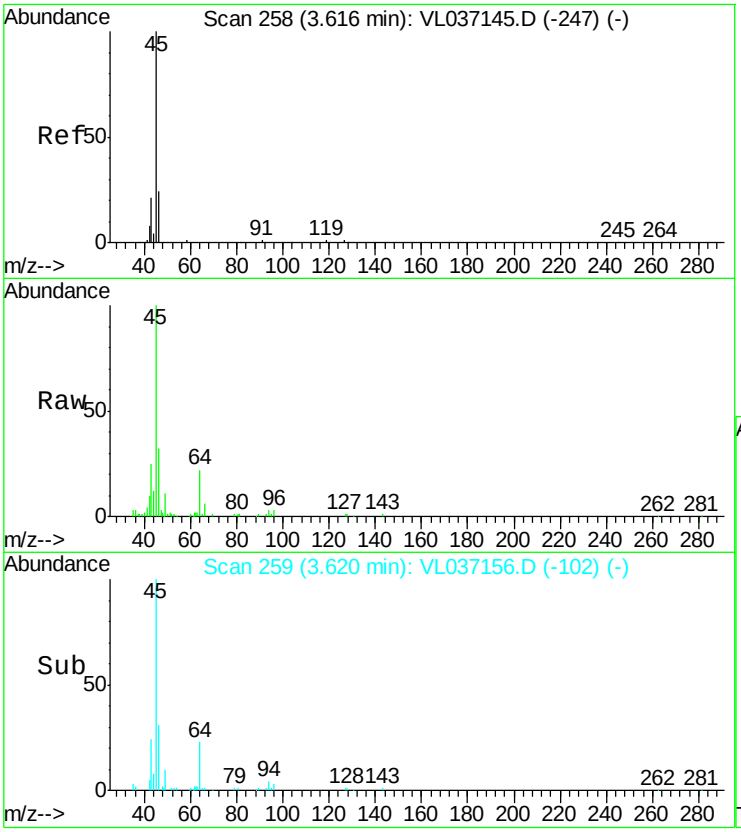


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.702 ppbv
RT: 4.49 min Scan# 531
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:101 Resp: 1936714

Ion	Ratio	Lower	Upper
101	100		
151	74.9	60.5	90.7

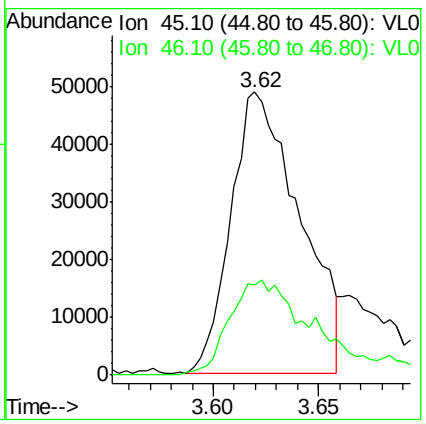




#13
Ethanol
Concen: 8.062 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

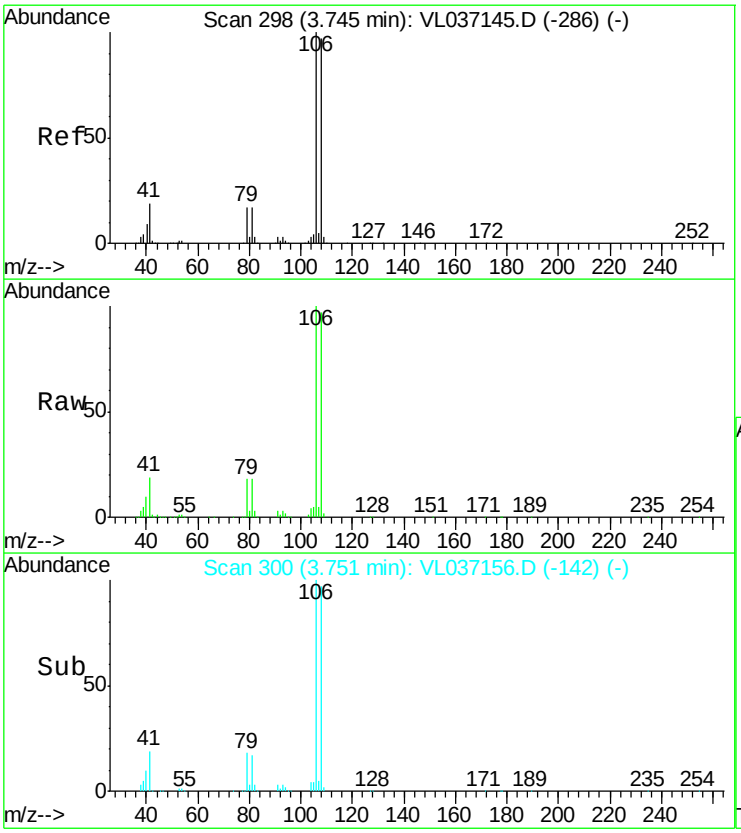
Tgt Ion: 45 Resp: 110983

Ion	Ratio	Lower	Upper
45	100		
46	45.9	15.4	61.8



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

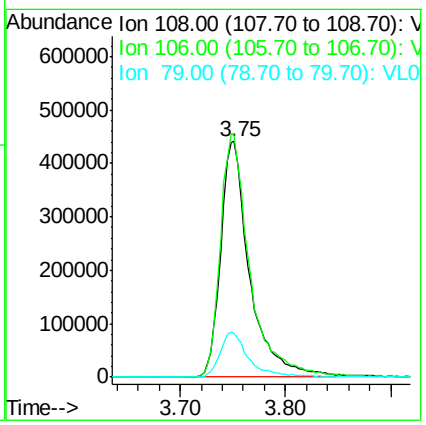
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

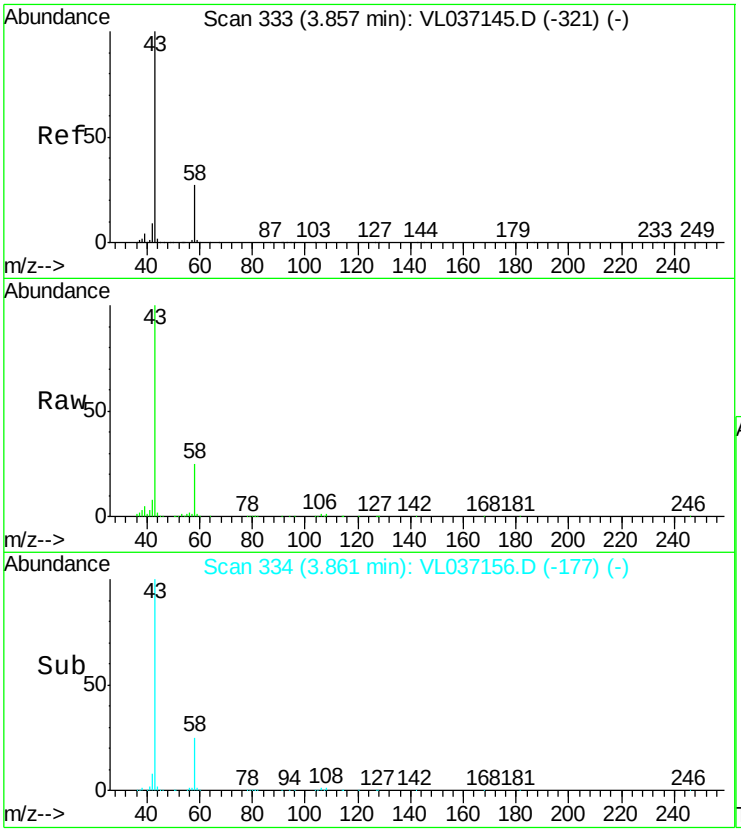


#14
Bromoethene
Concen: 9.703 ppbv
RT: 3.75 min Scan# 300
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:108 Resp: 838083

Ion	Ratio	Lower	Upper
108	100		
106	106.2	86.5	129.7
79	19.2	15.4	23.2

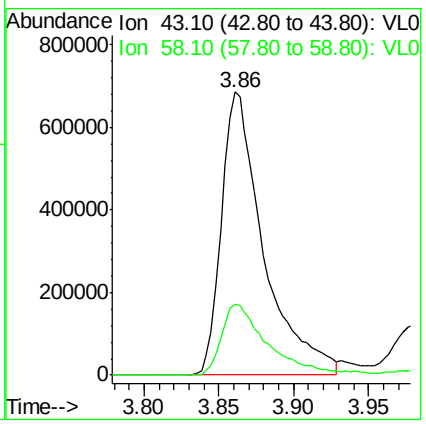




#15
Acetone
Concen: 6.959 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

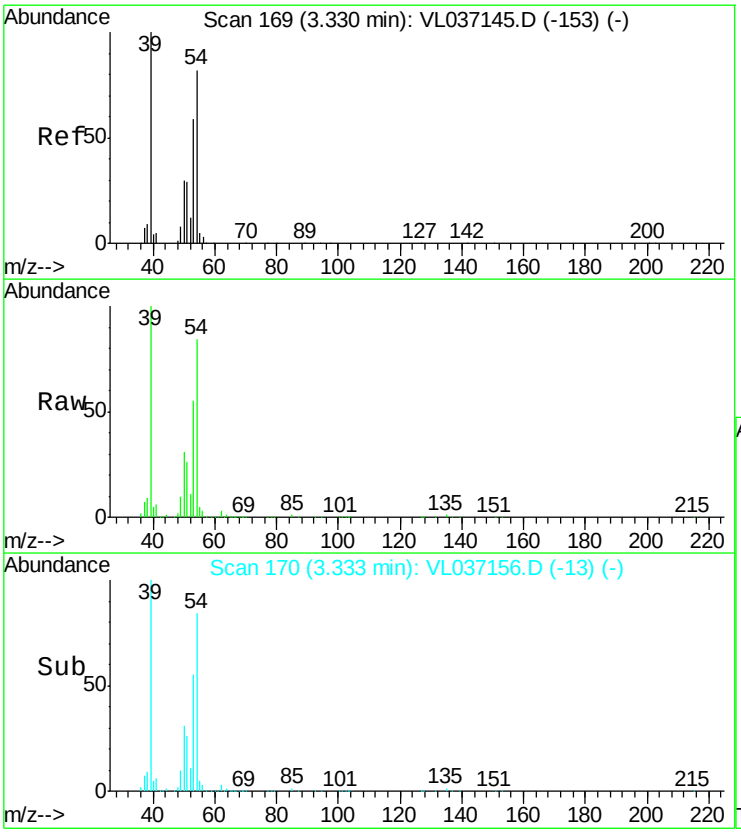
Tgt Ion: 43 Resp: 1340854

Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.0	34.6



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

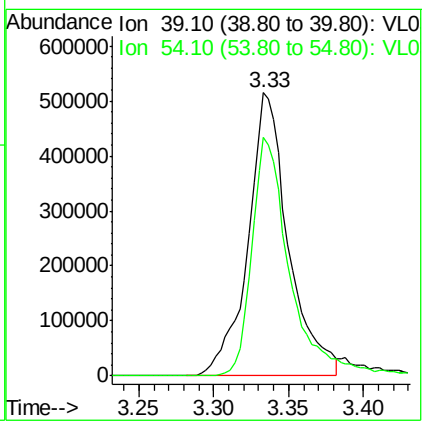
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

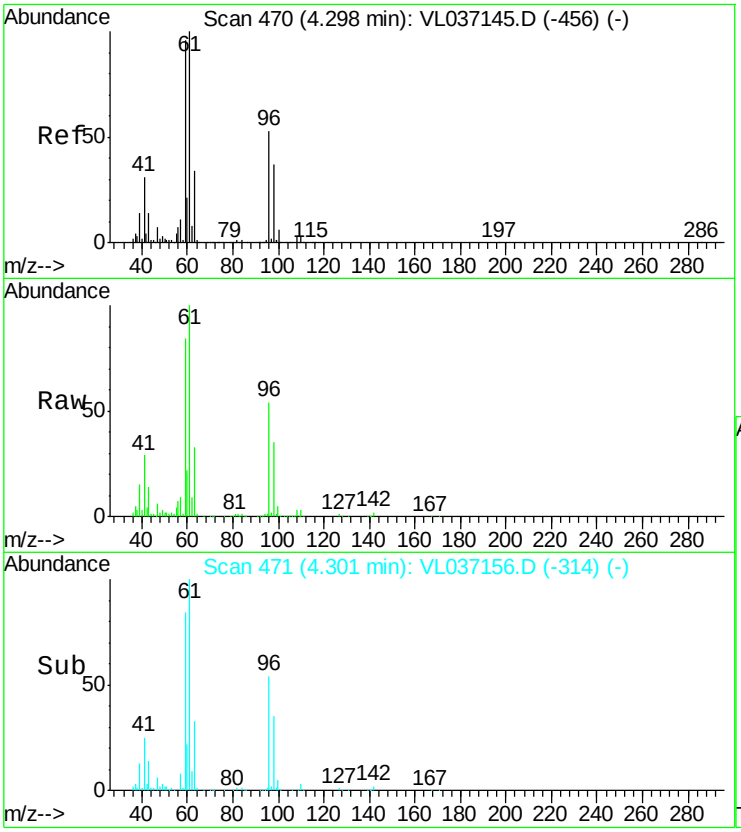


#16
1,3-Butadiene
Concen: 9.302 ppbv
RT: 3.33 min Scan# 170
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 39 Resp: 967725

Ion	Ratio	Lower	Upper
39	100		
54	80.1	61.8	92.6

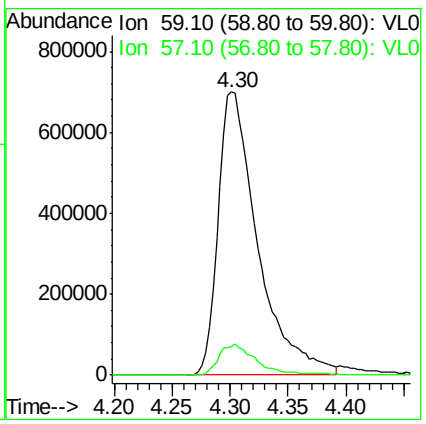




#17
tert-Butyl alcohol
Concen: 9.949 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

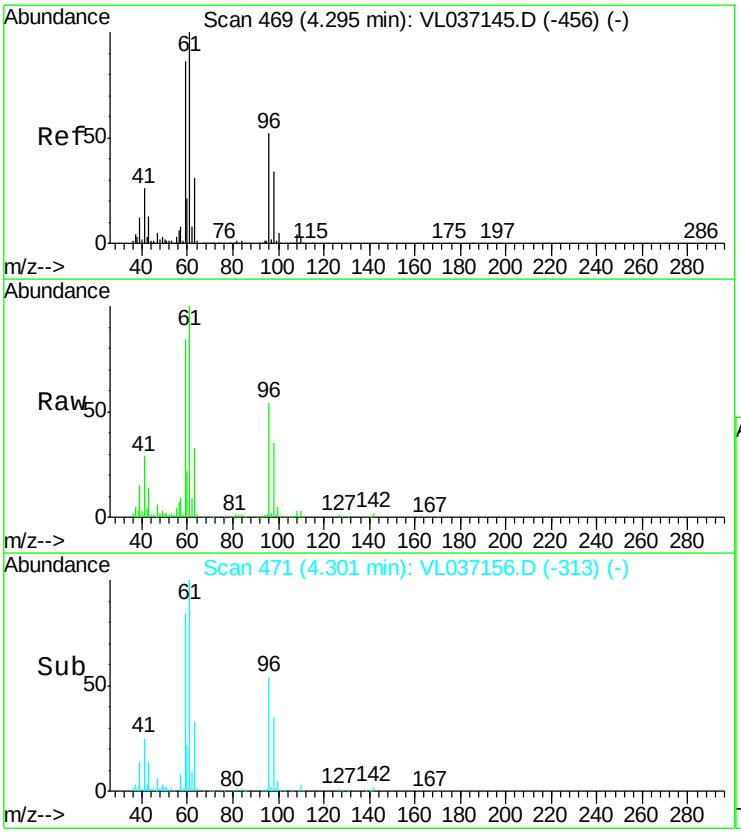
Tgt Ion: 59 Resp: 1659050

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.8	13.2



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

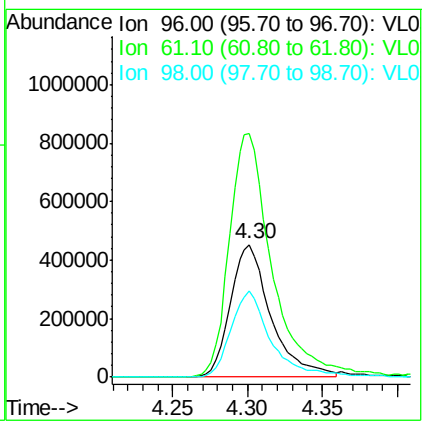
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

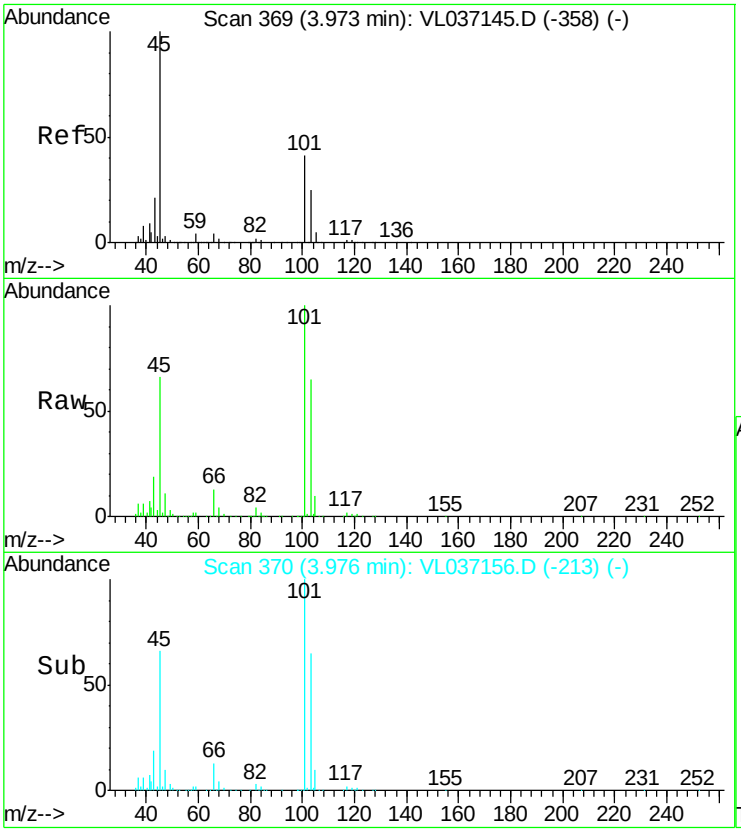


#18
1,1-Dichloroethene
Concen: 9.505 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 96 Resp: 855968

Ion	Ratio	Lower	Upper
96	100		
61	183.8	154.0	231.0
98	64.7	52.3	78.5

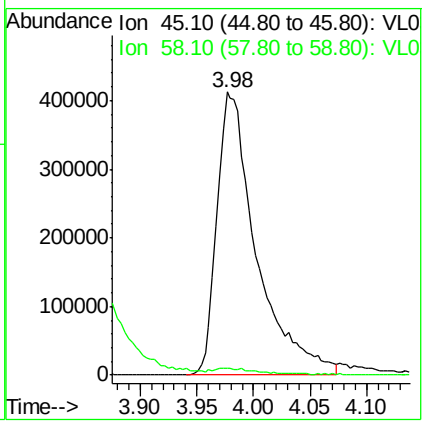




#19
Isopropyl Alcohol
Concen: 9.435 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

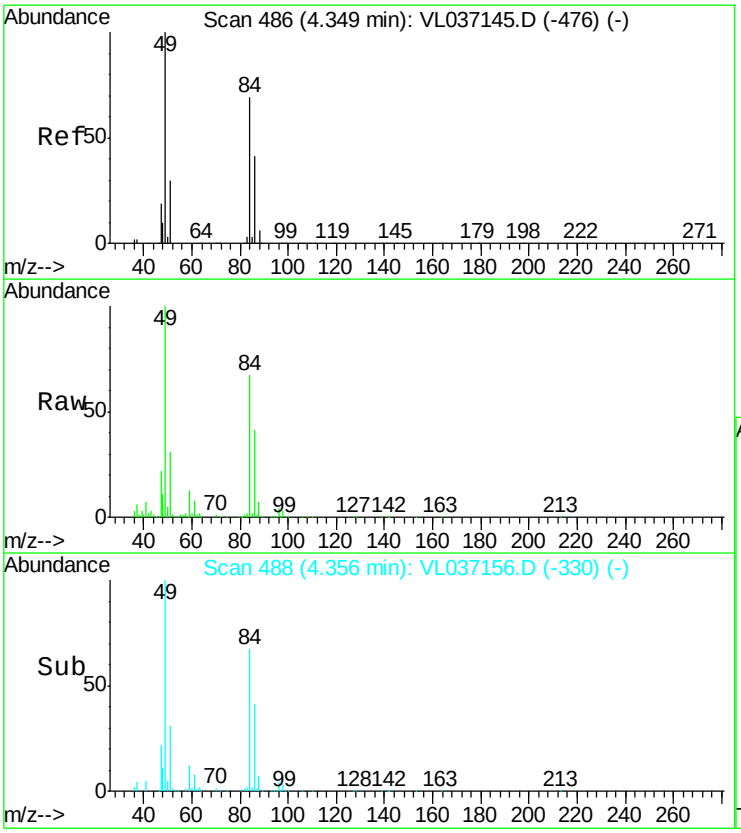
Tgt Ion: 45 Resp: 997589

Ion	Ratio	Lower	Upper
45	100		
58	3.3	1.4	2.2#



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

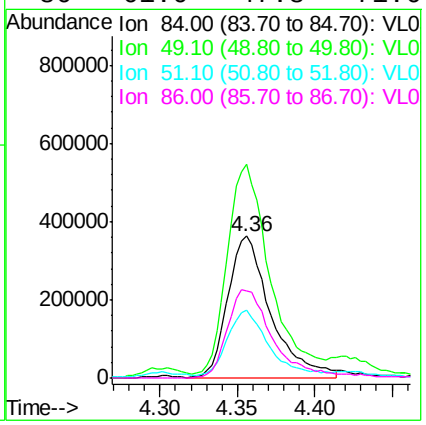
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

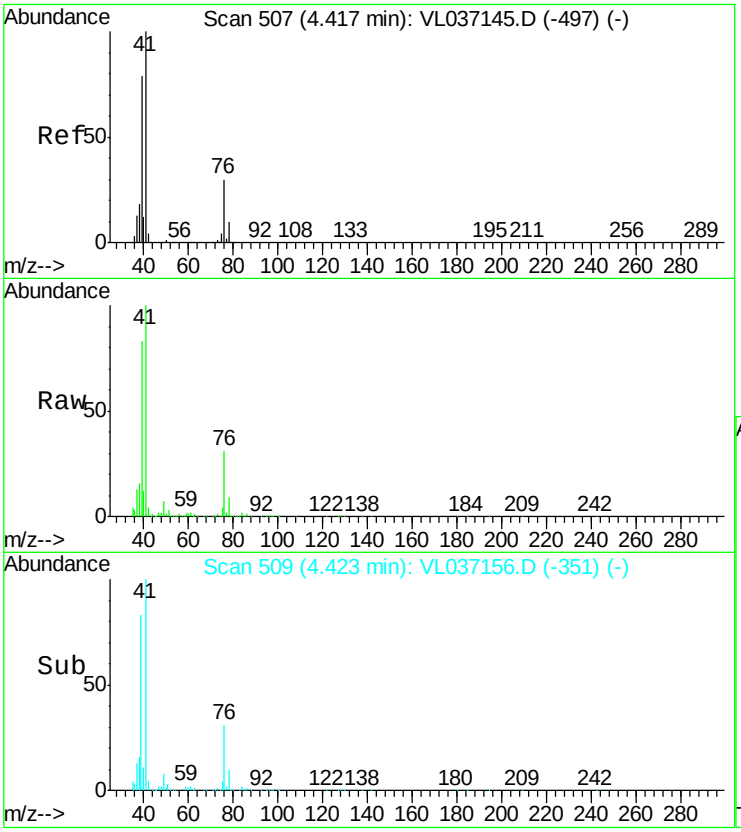


#20
Methylene Chloride
Concen: 8.278 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 84 Resp: 695151

Ion	Ratio	Lower	Upper
84	100		
49	147.6	115.3	172.9
51	45.1	34.2	51.4
86	61.0	47.8	71.6

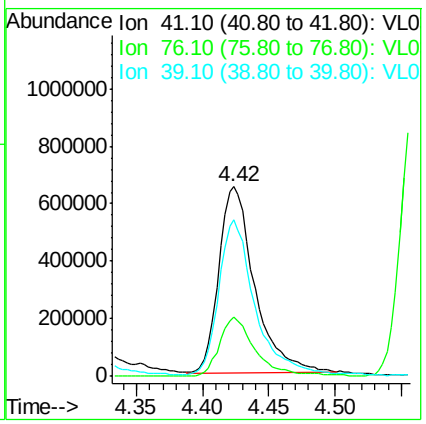




#21
Allvl Chloride
Concen: 9.574 ppbv
RT: 4.42 min Scan# 509
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

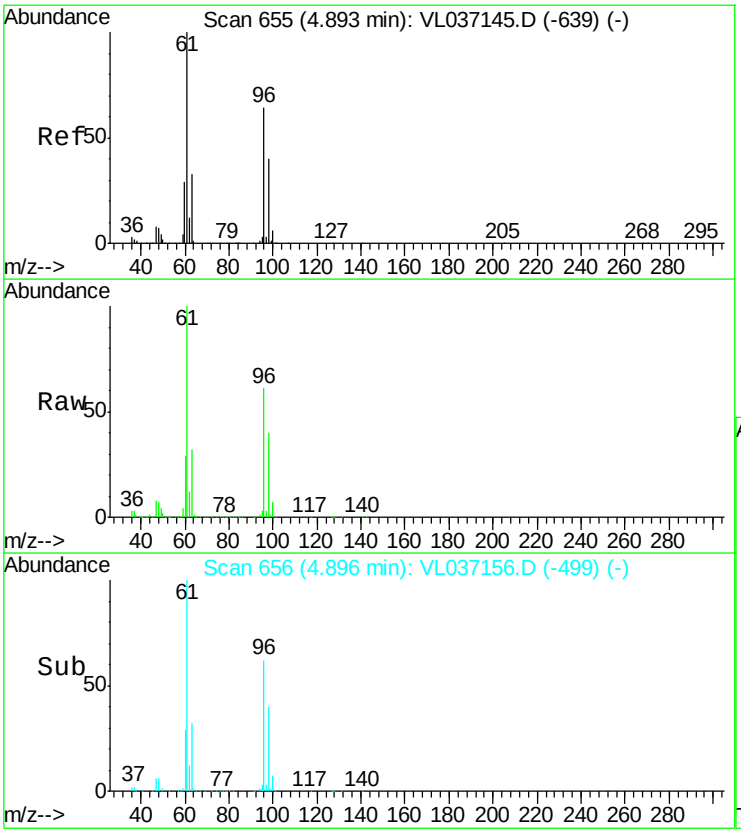
Tgt Ion: 41 Resp: 1232364

Ion	Ratio	Lower	Upper
41	100		
76	31.7	25.2	37.8
39	84.6	66.2	99.2



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

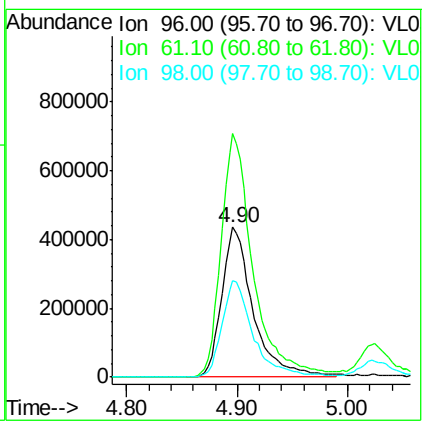
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

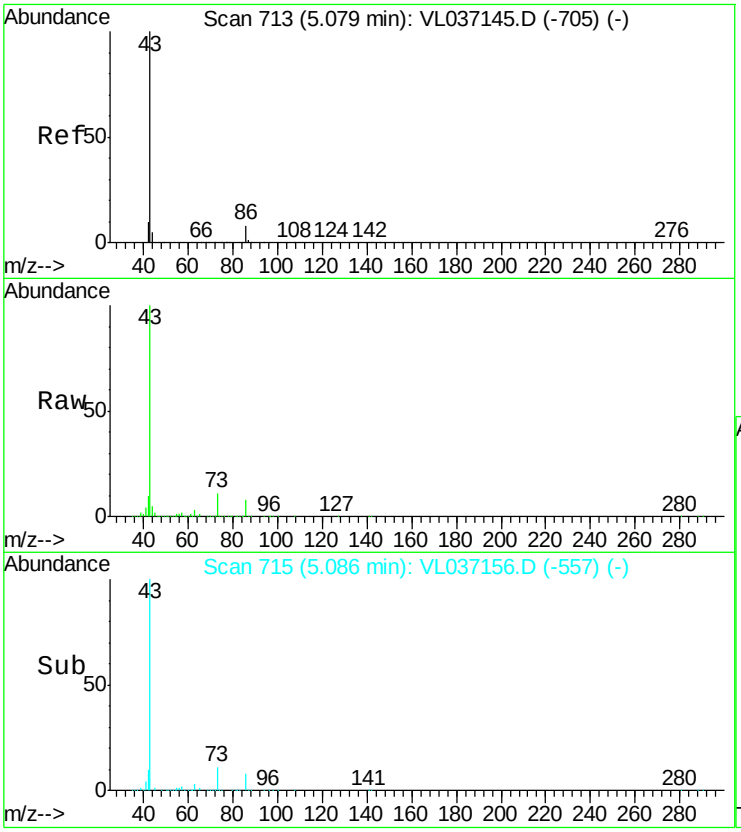


#22
trans-1,2-Dichloroethene
Concen: 9.831 ppbv
RT: 4.90 min Scan# 656
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 96 Resp: 862530

Ion	Ratio	Lower	Upper
96	100		
61	162.7	125.3	187.9
98	64.6	50.3	75.5

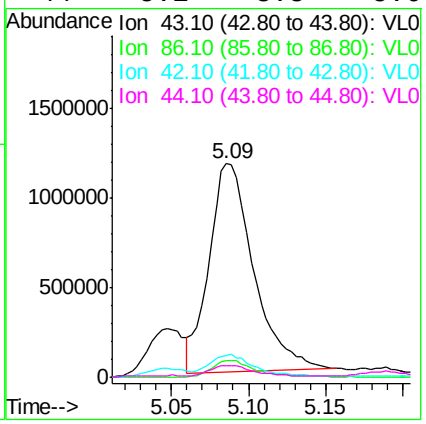




#23
Vinyl Acetate
Concen: 9.297 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

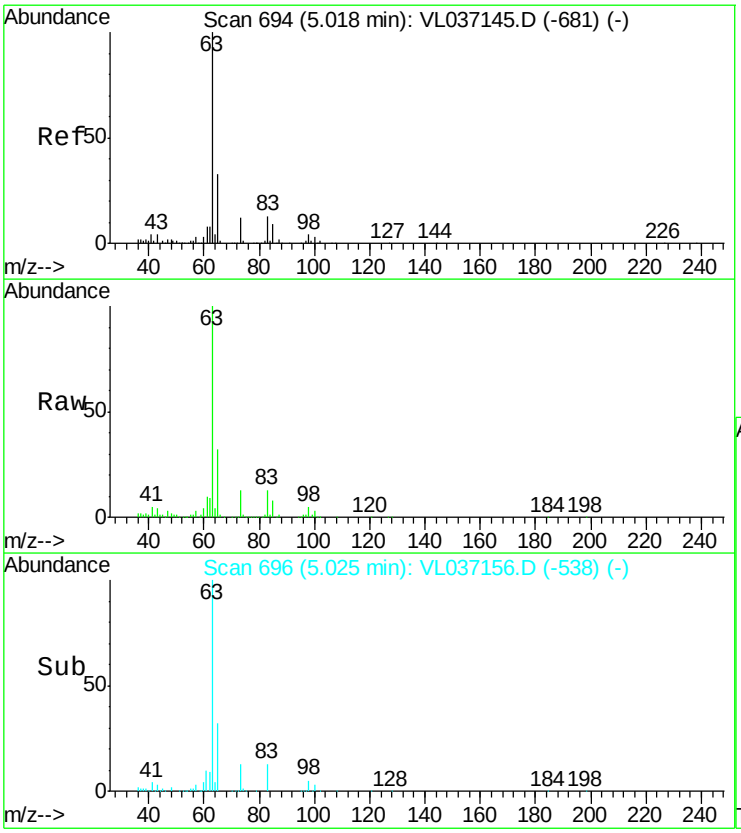
Tgt Ion: 43 Resp: 2352442

Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.4	8.2
42	10.2	8.6	12.8
44	5.1	3.8	5.6



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

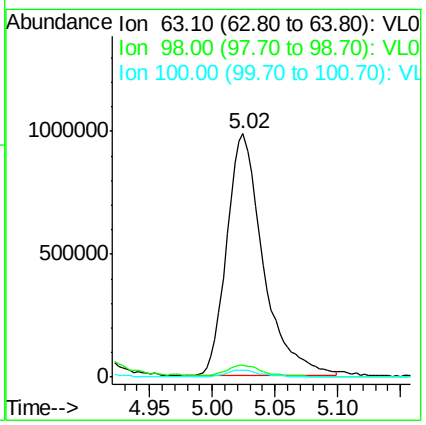
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

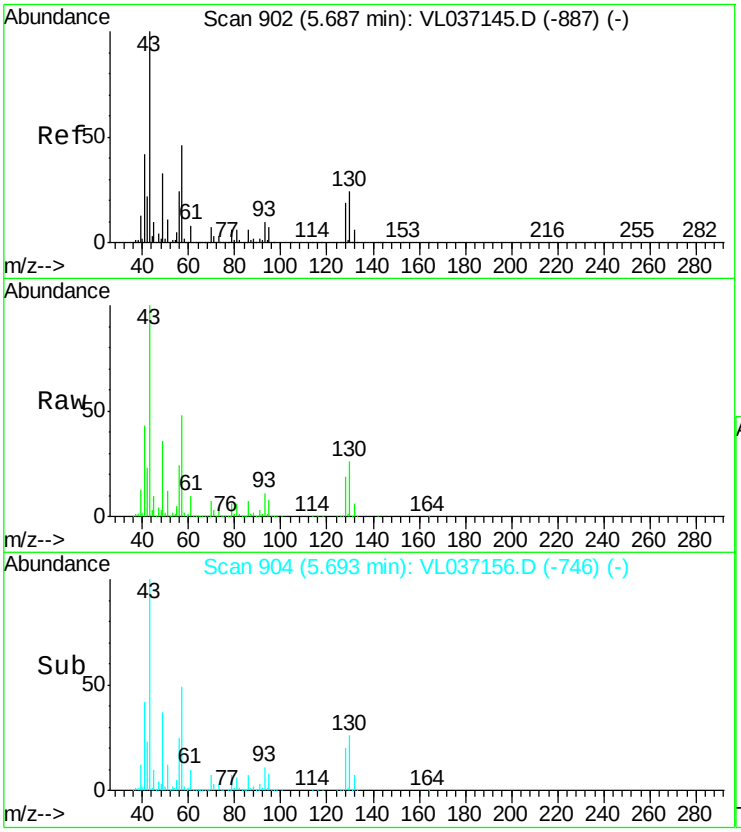


#24
1,1-Dichloroethane
Concen: 9.811 ppbv
RT: 5.02 min Scan# 696
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 63 Resp: 1992324

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.4	7.1
100	2.5	1.6	4.8

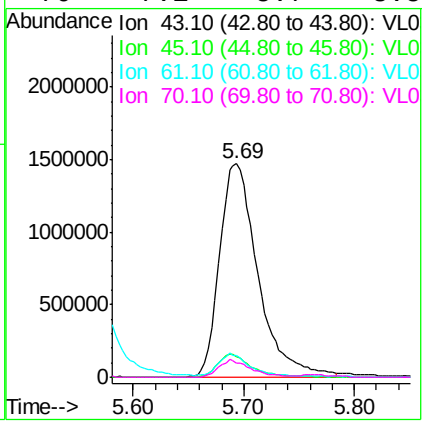




#25
Ethyl Acetate
Concen: 9.410 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

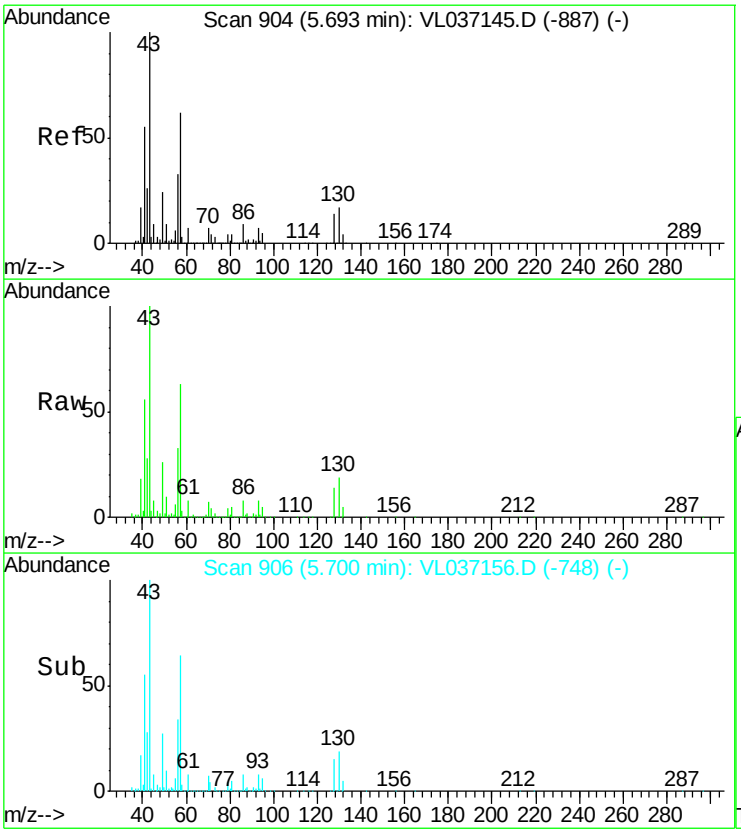
Tgt Ion: 43 Resp: 3552505

Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.8
61	10.3	7.5	11.3
70	7.1	5.7	8.5



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

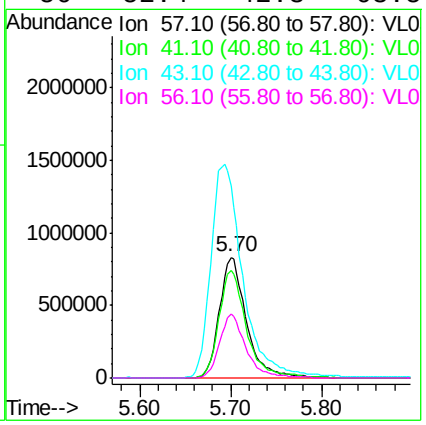
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

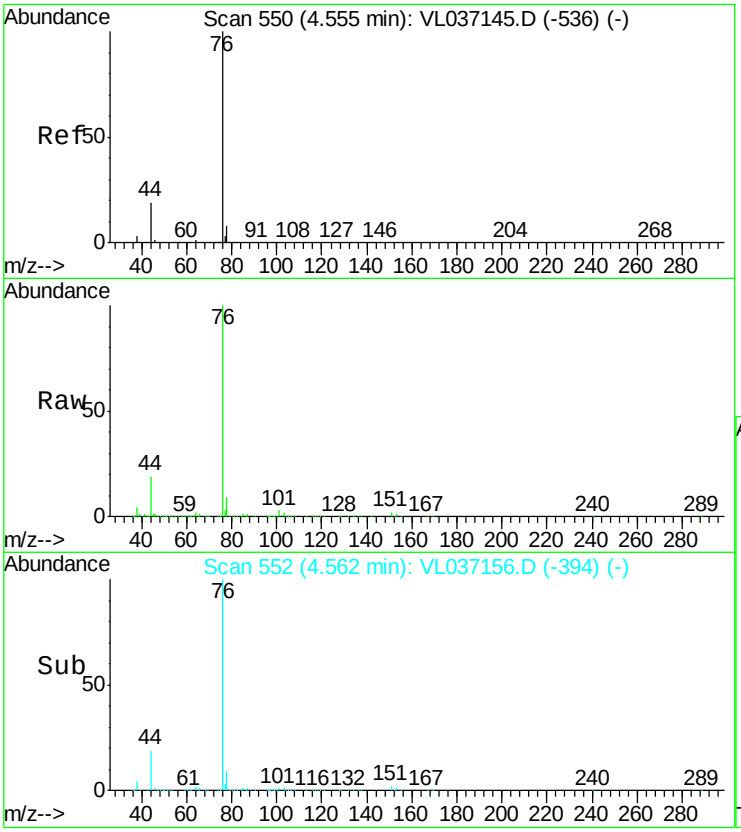


#26
Hexane
Concen: 9.153 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 57 Resp: 1718604

Ion	Ratio	Lower	Upper
57	100		
41	91.2	73.6	110.4
43	209.8	168.8	253.2
56	52.4	42.3	63.5

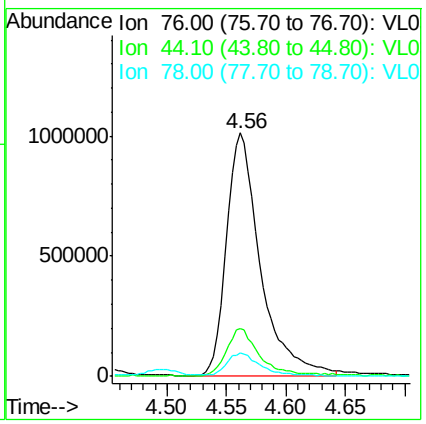




#27
Carbon Disulfide
Concen: 10.530 ppbv
RT: 4.56 min Scan# 552
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

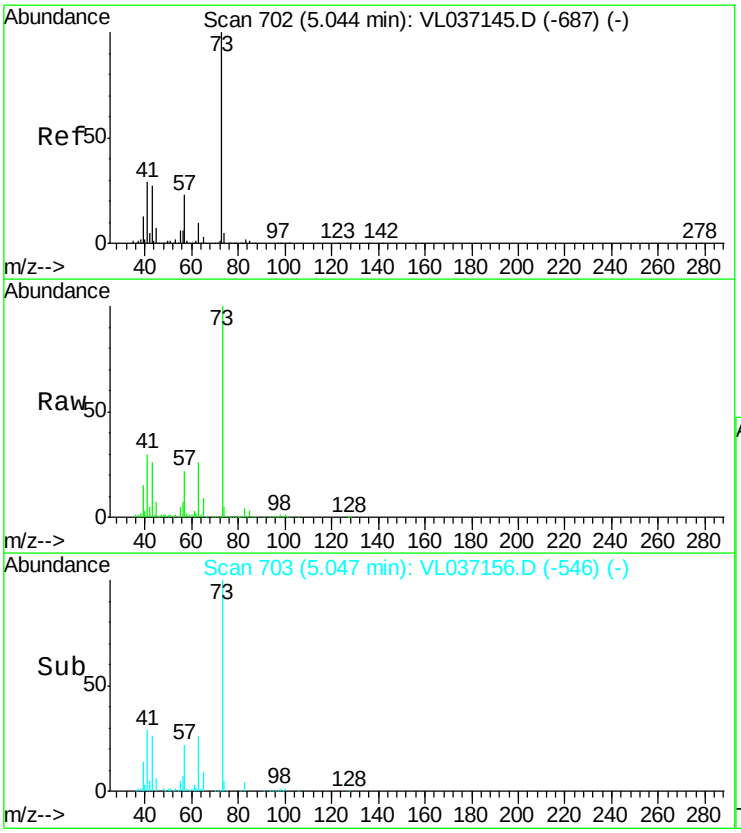
Tgt Ion: 76 Resp: 2004654

Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.6	23.4
78	10.2	7.6	11.4



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

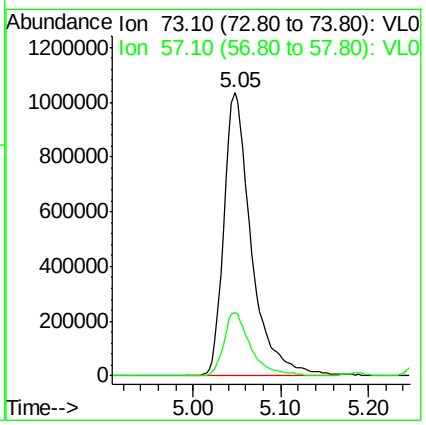
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

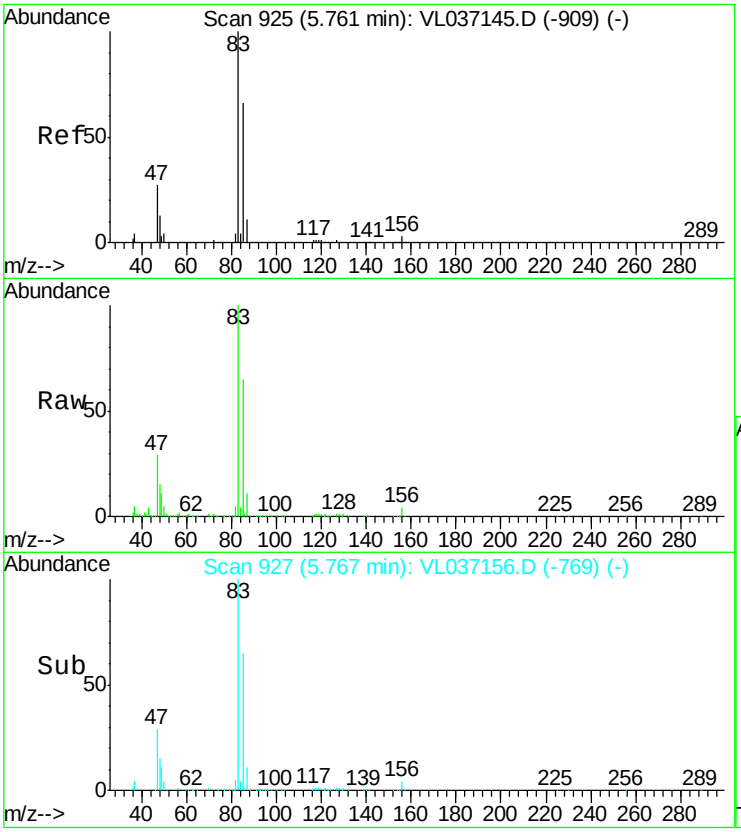


#28
Methyl tert-Butyl Ether
Concen: 9.590 ppbv
RT: 5.05 min Scan# 703
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 73 Resp: 2255309

Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.2	27.4

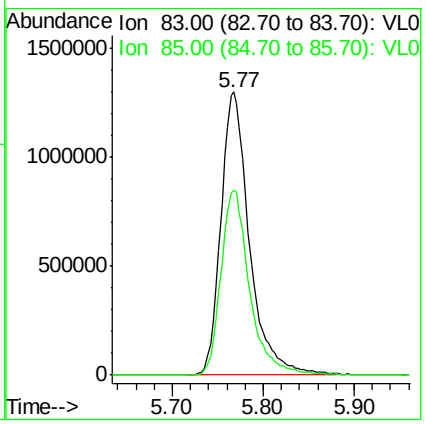




#29
Chloroform
Concen: 9.345 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

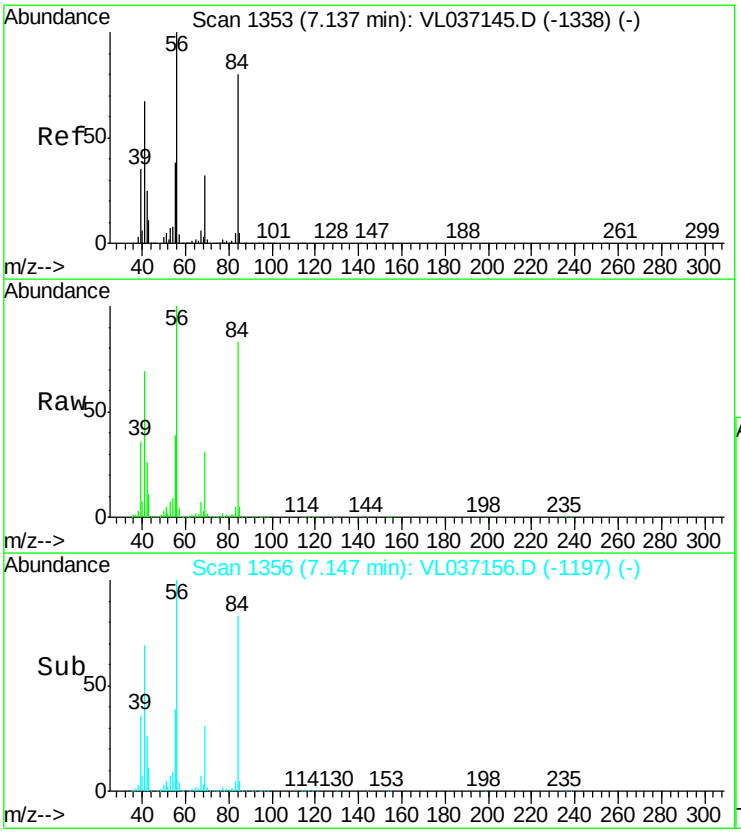
Tgt Ion: 83 Resp: 2832637

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.6	78.8



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

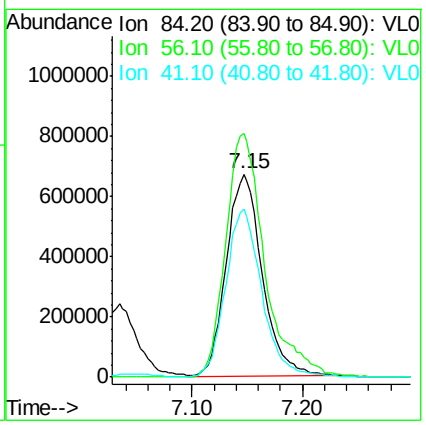
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

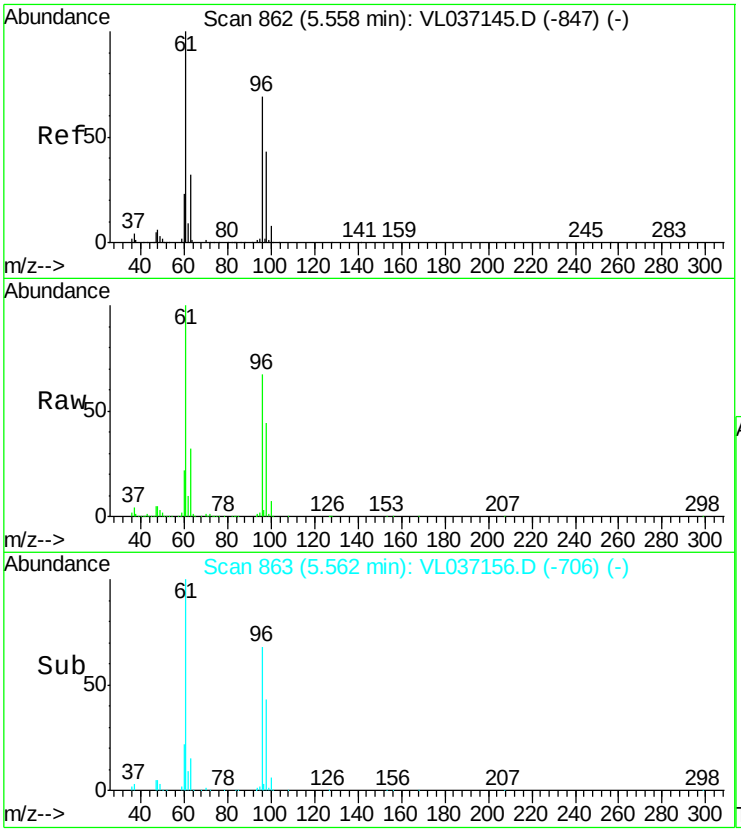


#30
Cyclohexane
Concen: 9.270 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 84 Resp: 1517409

Ion	Ratio	Lower	Upper
84	100		
56	132.0	103.9	155.9
41	84.2	66.5	99.7

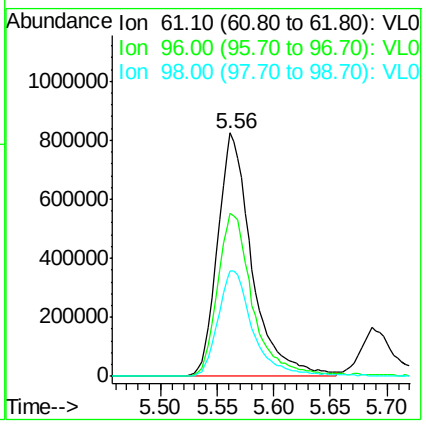




#31
cis-1,2-Dichloroethene
Concen: 9.572 ppbv
RT: 5.56 min Scan# 863
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

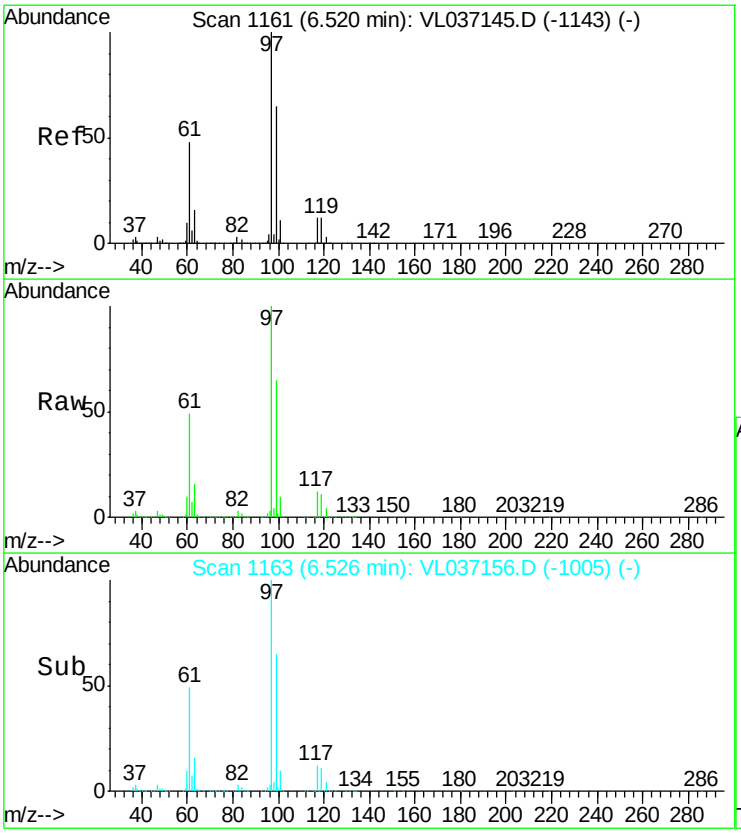
Tgt Ion: 61 Resp: 1732122

Ion	Ratio	Lower	Upper
61	100		
96	67.0	55.3	82.9
98	43.4	34.7	52.1



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

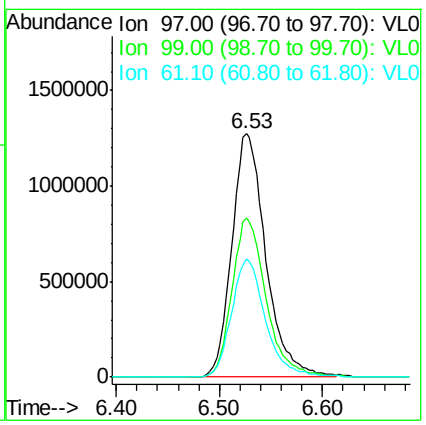
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

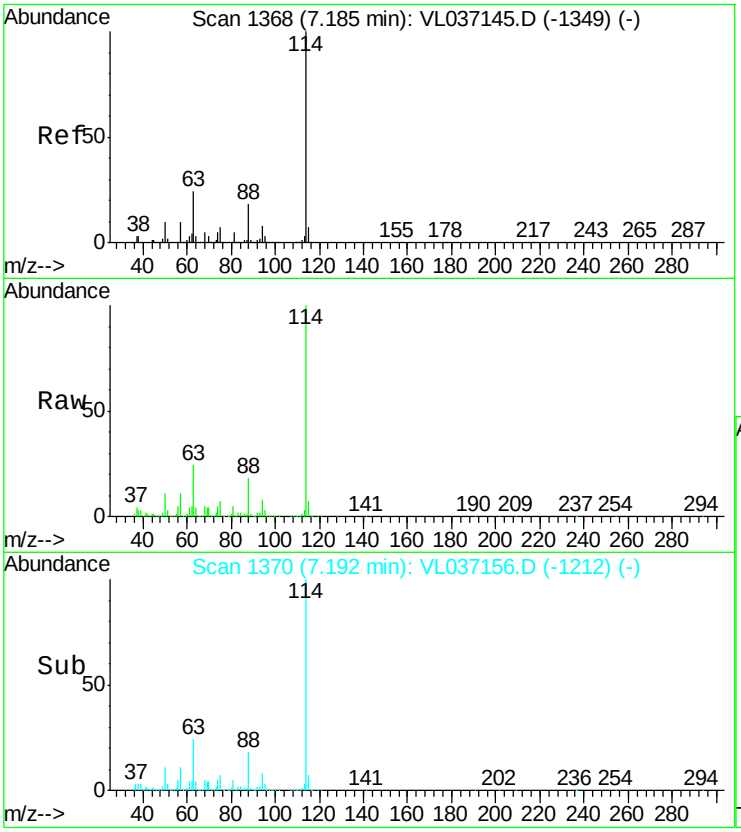


#32
1,1,1-Trichloroethane
Concen: 10.532 ppbv
RT: 6.53 min Scan# 1163
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 97 Resp: 2931497

Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.4	78.6
61	48.4	38.5	57.7

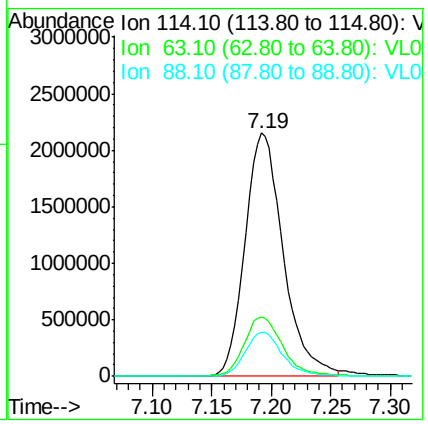




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

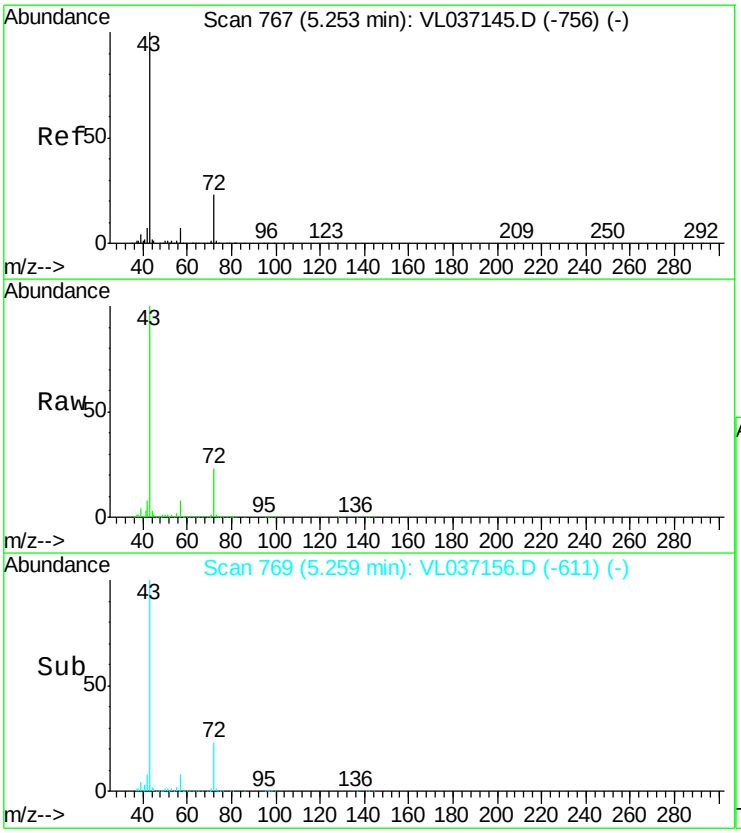
Tgt Ion:114 Resp: 4794680

Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.8	29.6
88	18.0	14.3	21.5



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

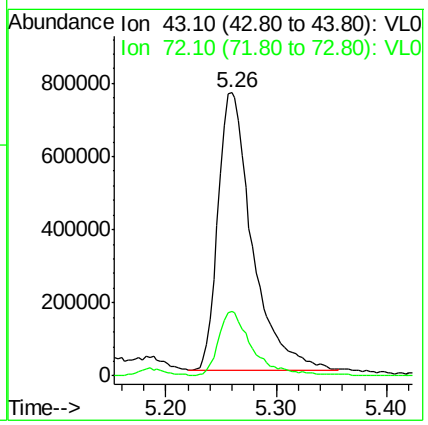
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

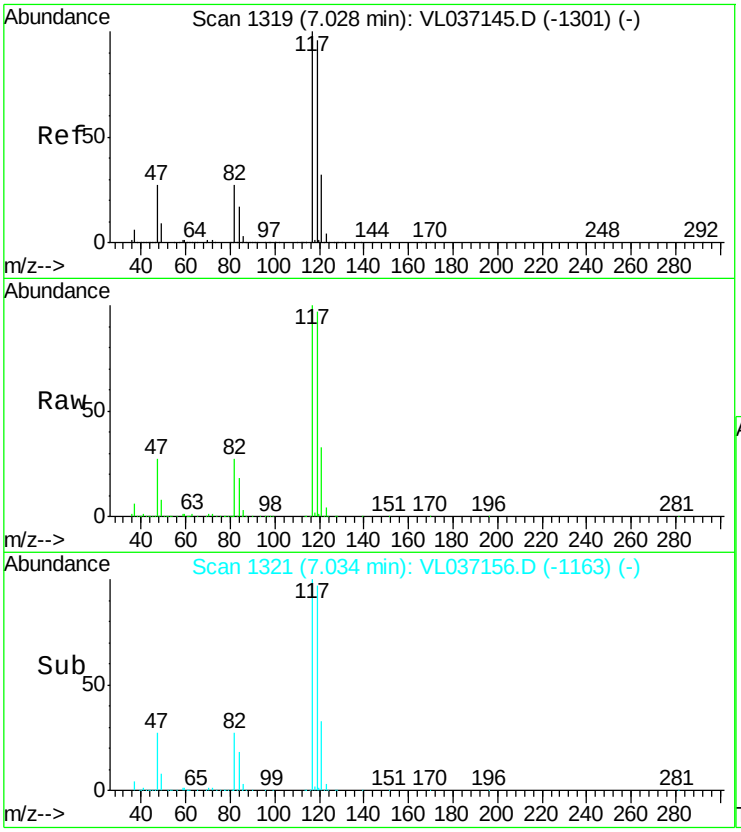


#34
2-Butanone
Concen: 9.062 ppbv
RT: 5.26 min Scan# 769
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 43 Resp: 1631780

Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.6	28.0

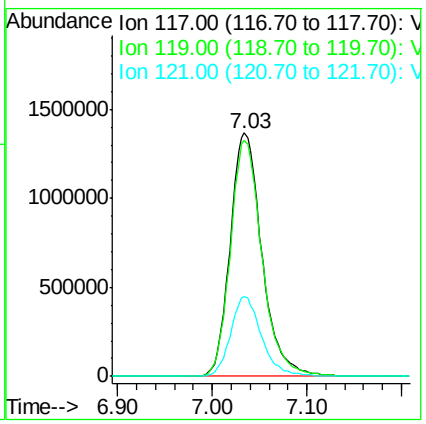




#35
Carbon Tetrachloride
Concen: 10.797 ppbv
RT: 7.03 min Scan# 1321
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

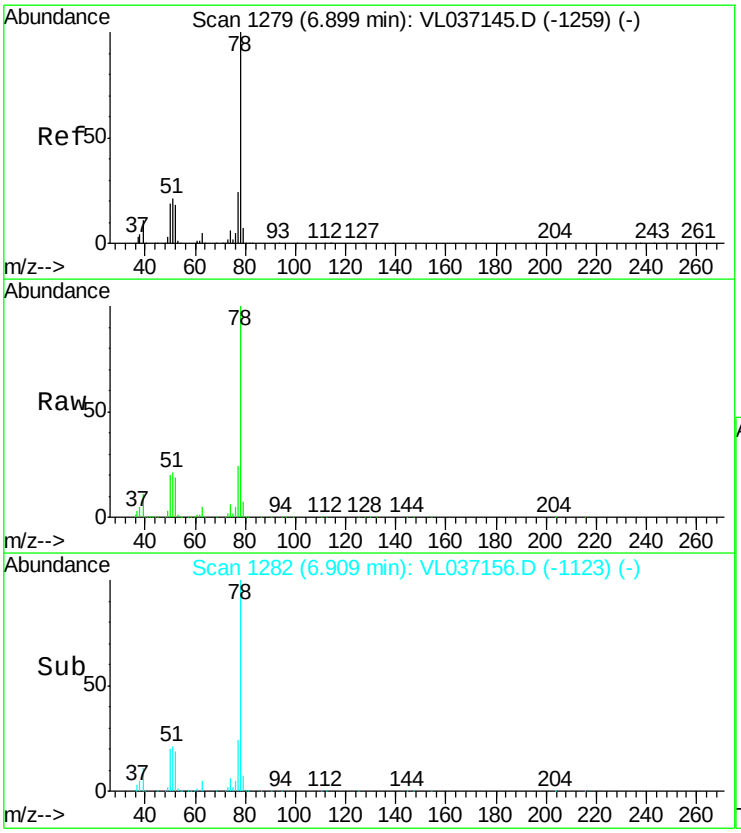
Tgt Ion:117 Resp: 3182353

Ion	Ratio	Lower	Upper
117	100		
119	96.8	77.0	115.4
121	33.0	25.4	38.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

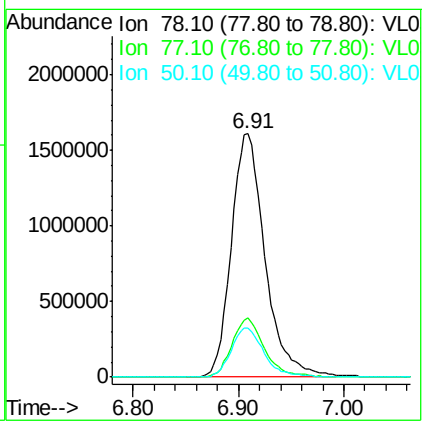
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

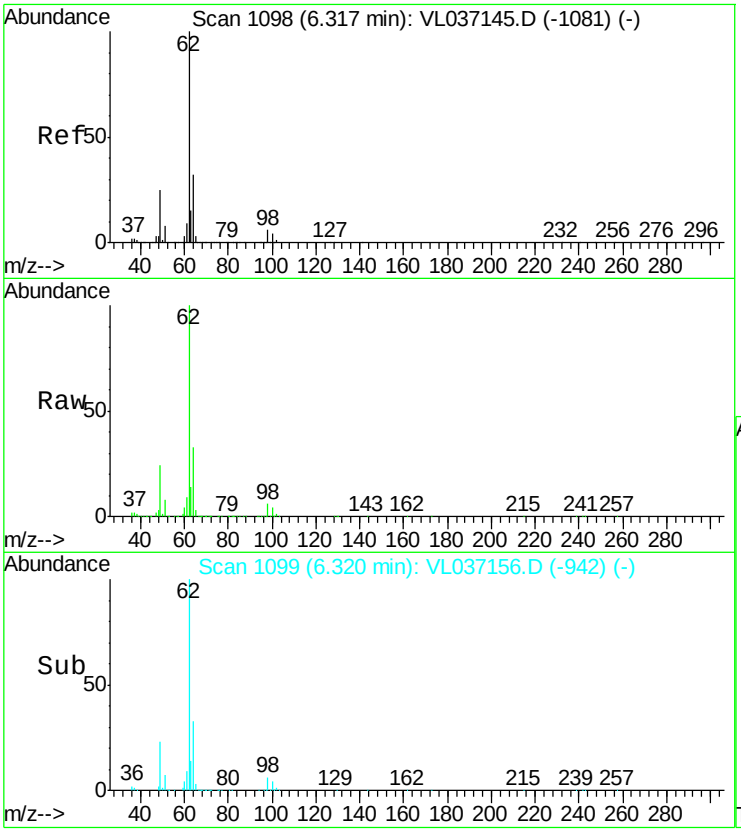


#36
Benzene
Concen: 9.367 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 78 Resp: 3563728

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.5	29.3
50	20.1	15.5	23.3

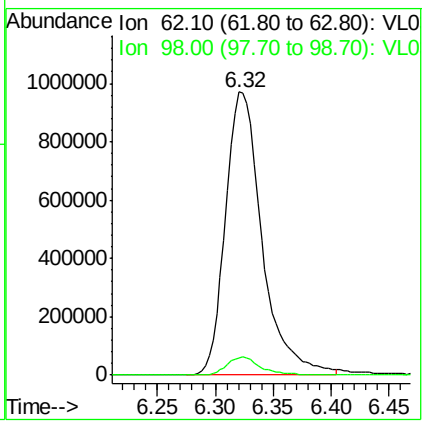




#37
1,2-Dichloroethane
Concen: 9.613 ppbv
RT: 6.32 min Scan# 1099
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

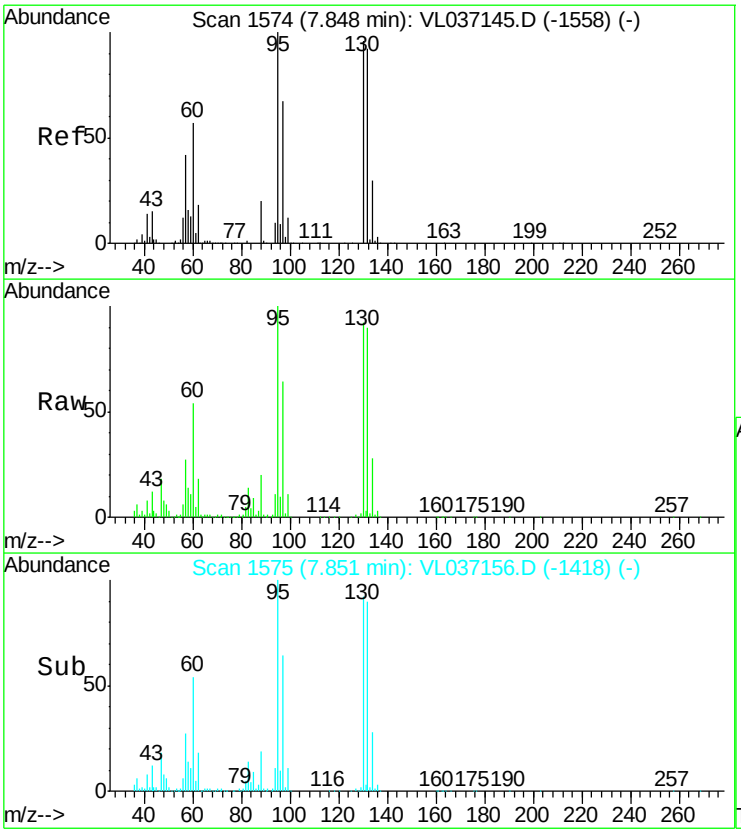
Tgt Ion: 62 Resp: 2123669

Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.1	7.7



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

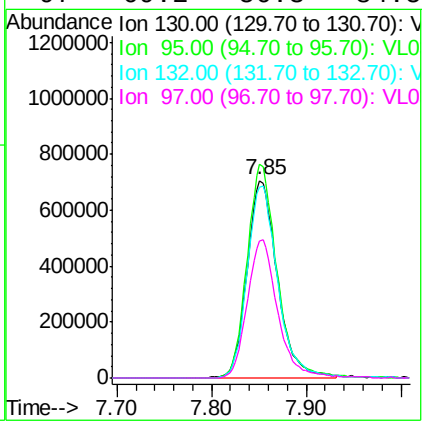
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

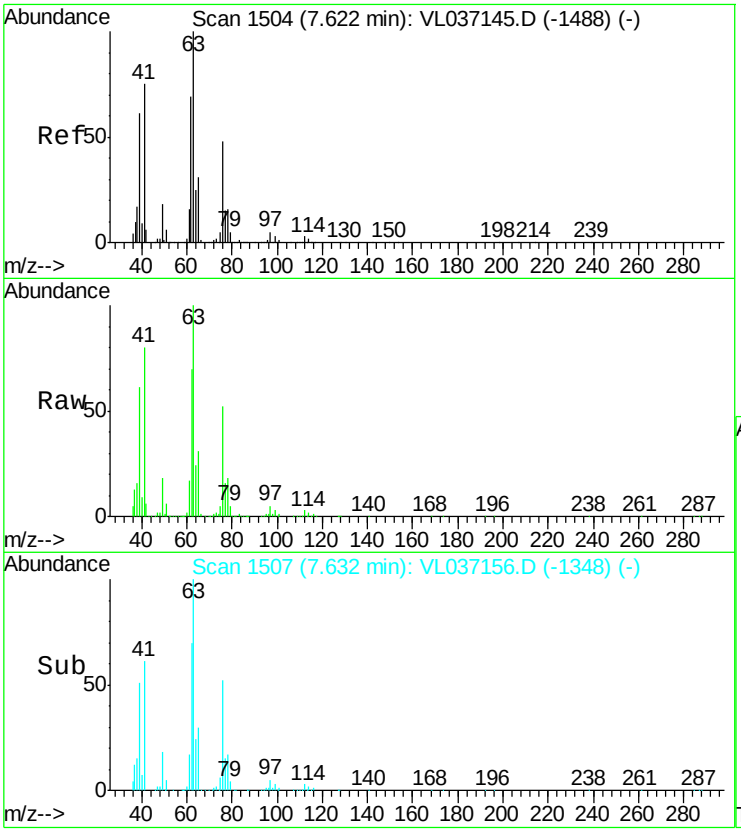


#38
Trichloroethene
Concen: 9.562 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:130 Resp: 1572115

Ion	Ratio	Lower	Upper
130	100		
95	108.3	83.5	125.3
132	97.0	76.8	115.2
97	69.2	56.3	84.5

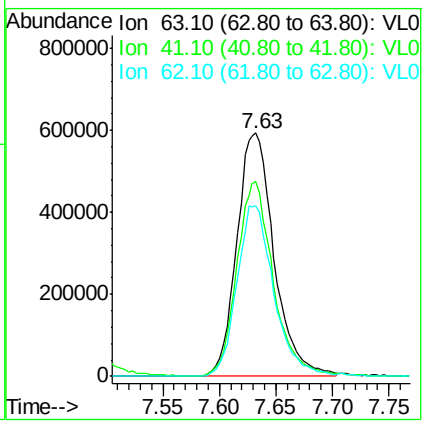




#39
1,2-Dichloropropane
Concen: 9.338 ppbv
RT: 7.63 min Scan# 1507
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

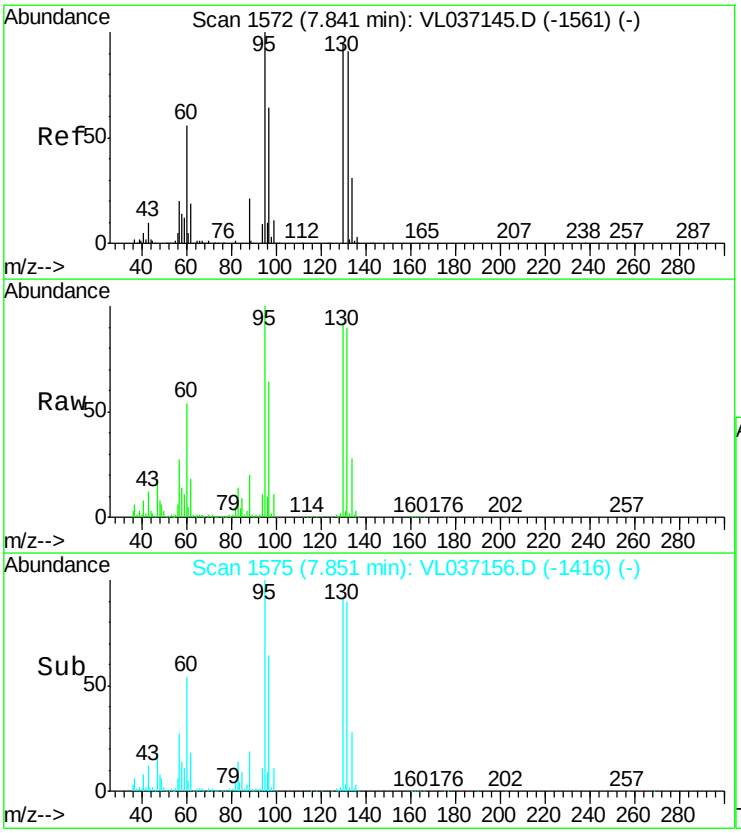
Tgt Ion: 63 Resp: 1356417

Ion	Ratio	Lower	Upper
63	100		
41	79.7	60.0	90.0
62	69.9	55.4	83.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

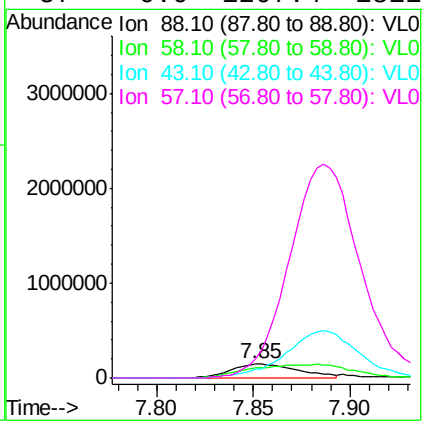
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

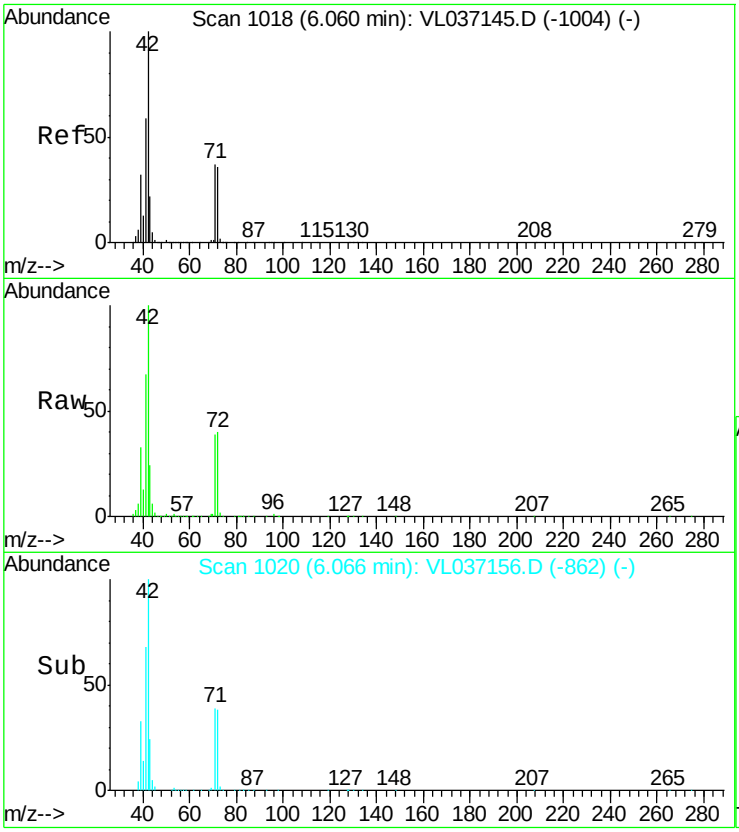


#40
1,4-Dioxane
Concen: 8.312 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 88 Resp: 338099

Ion	Ratio	Lower	Upper
88	100		
58	0.0	115.6	173.4#
43	0.0	278.3	417.5#
57	0.0	1207.4	1811.0#

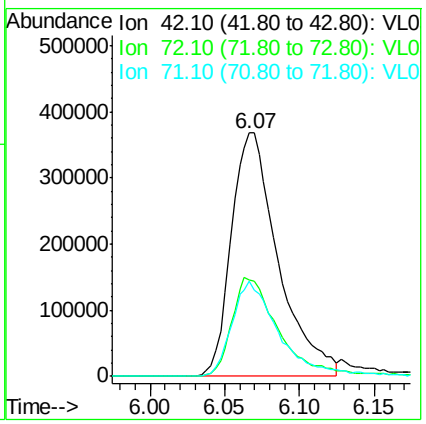




#41
Tetrahydrofuran
Concen: 9.124 ppbv
RT: 6.07 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

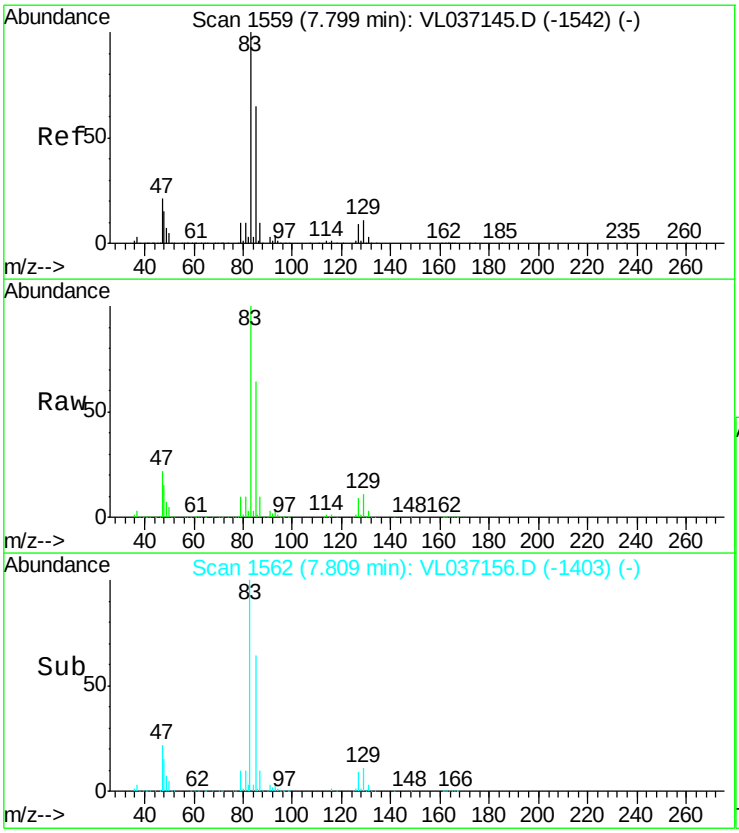
Tgt Ion: 42 Resp: 799545

Ion	Ratio	Lower	Upper
42	100		
72	41.5	31.7	47.5
71	39.8	31.0	46.6



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

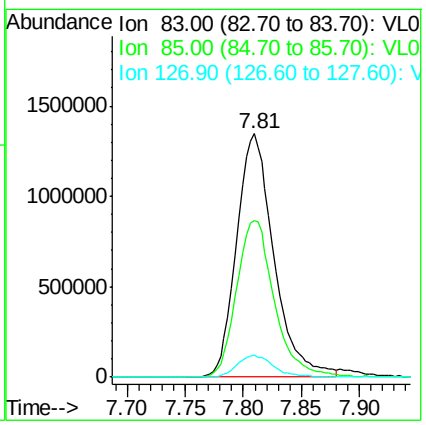
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

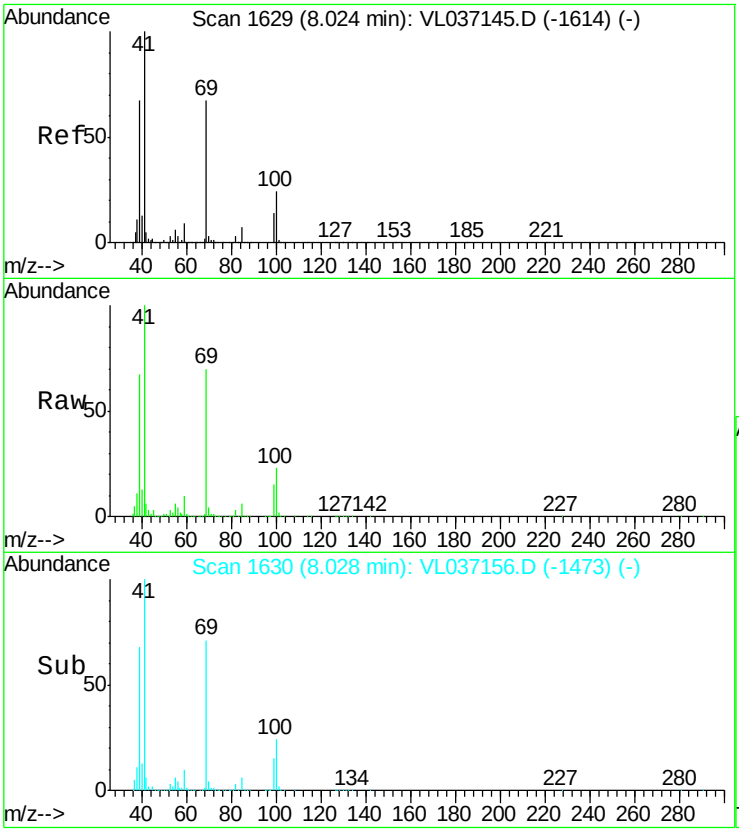


#42
Bromodichloromethane
Concen: 9.920 ppbv
RT: 7.81 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 83 Resp: 3019501

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.7	77.5
127	8.9	7.4	11.0

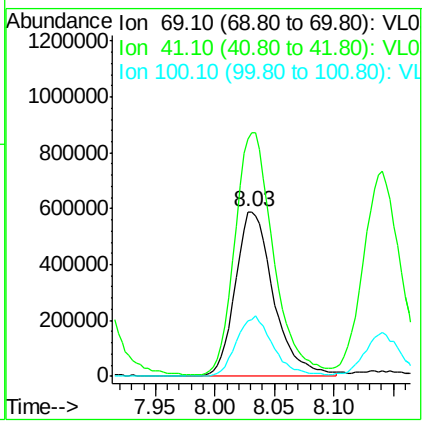




#43
Methyl Methacrylate
Concen: 10.087 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

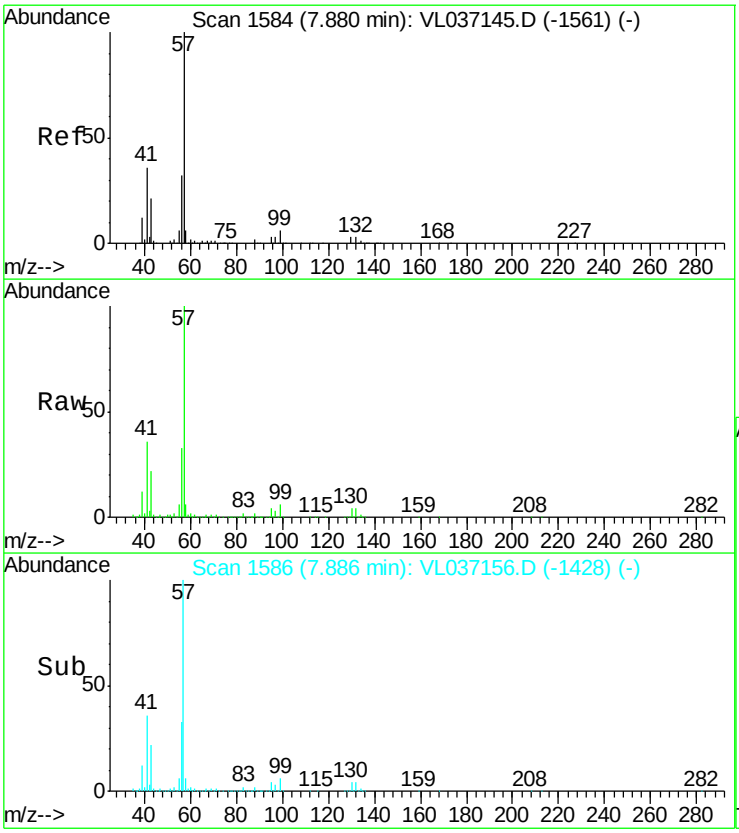
Tgt Ion: 69 Resp: 1316559

Ion	Ratio	Lower	Upper
69	100		
41	148.8	117.7	176.5
100	35.1	27.9	41.9



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

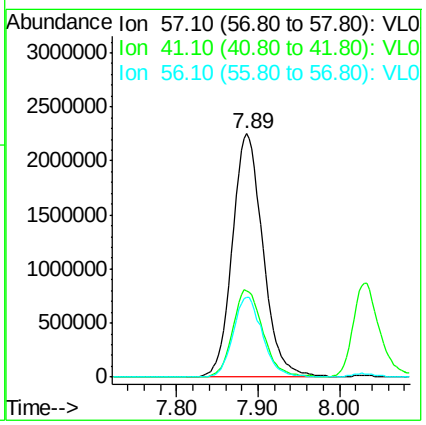
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

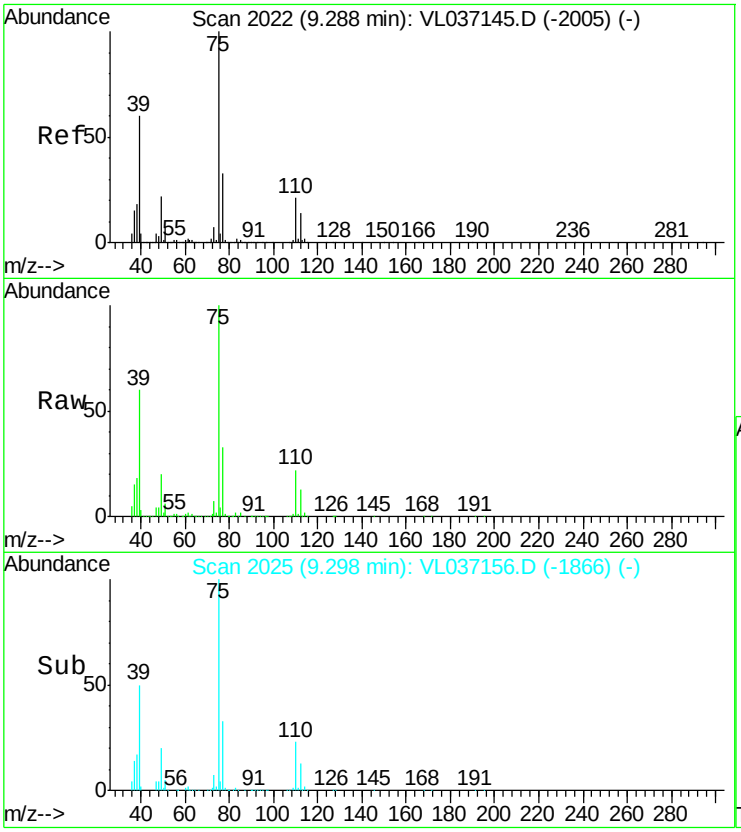


#44
2,2,4-Trimethylpentane
Concen: 9.204 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 57 Resp: 5861159

Ion	Ratio	Lower	Upper
57	100		
41	35.2	28.1	42.1
56	31.7	25.4	38.2

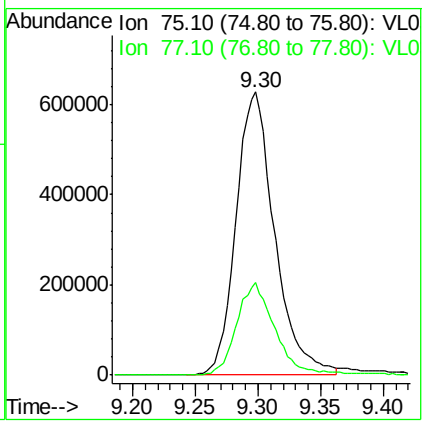




#45
t-1,3-Dichloropropene
Concen: 11.390 ppbv
RT: 9.30 min Scan# 2025
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

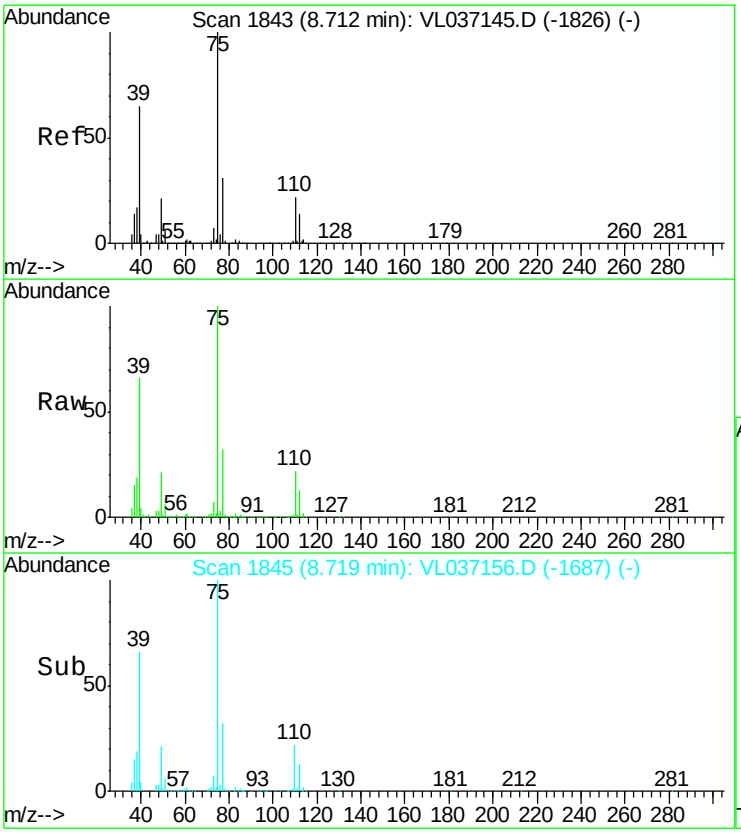
Tgt Ion: 75 Resp: 1339711

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.2	39.2



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

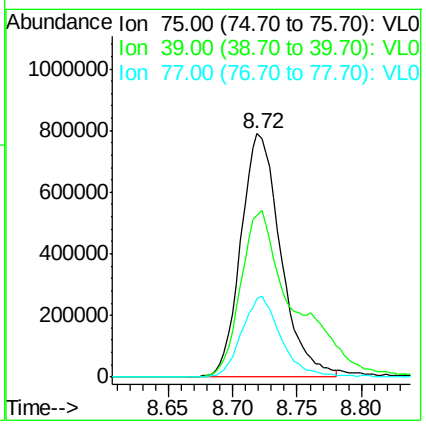
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

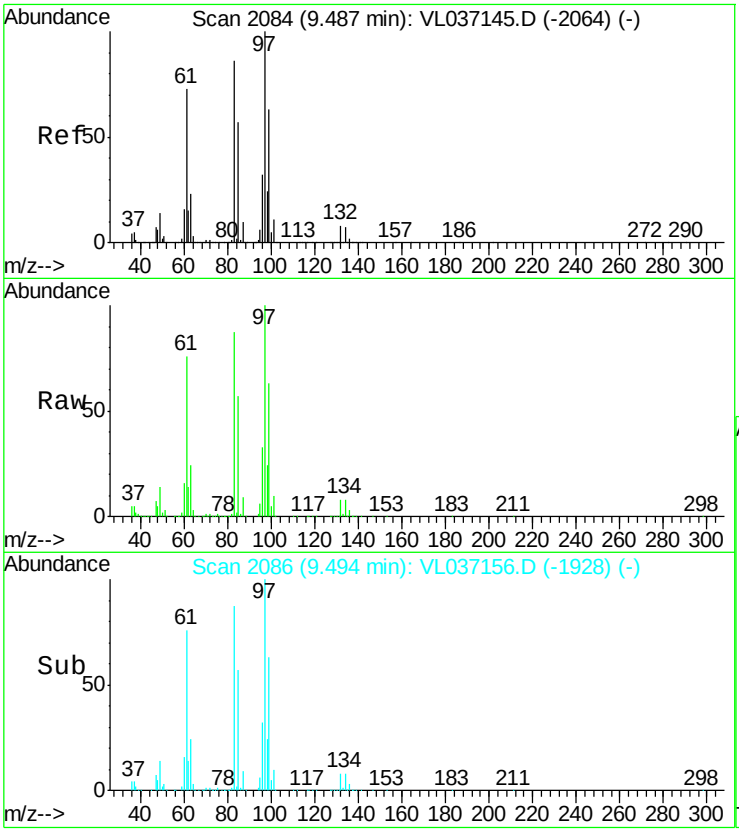


#46
cis-1,3-Dichloropropene
Concen: 10.860 ppbv
RT: 8.72 min Scan# 1845
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 75 Resp: 1704412

Ion	Ratio	Lower	Upper
75	100		
39	66.0	52.2	78.4
77	32.4	24.5	36.7

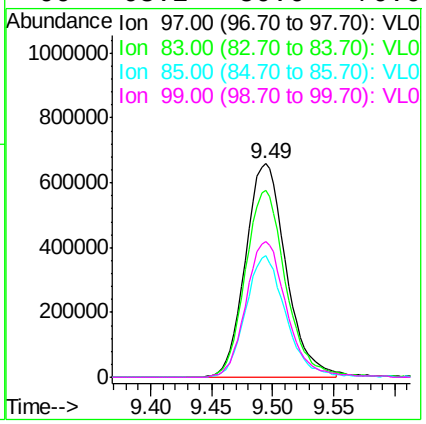




#47
1,1,2-Trichloroethane
Concen: 9.175 ppbv
RT: 9.49 min Scan# 2086
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

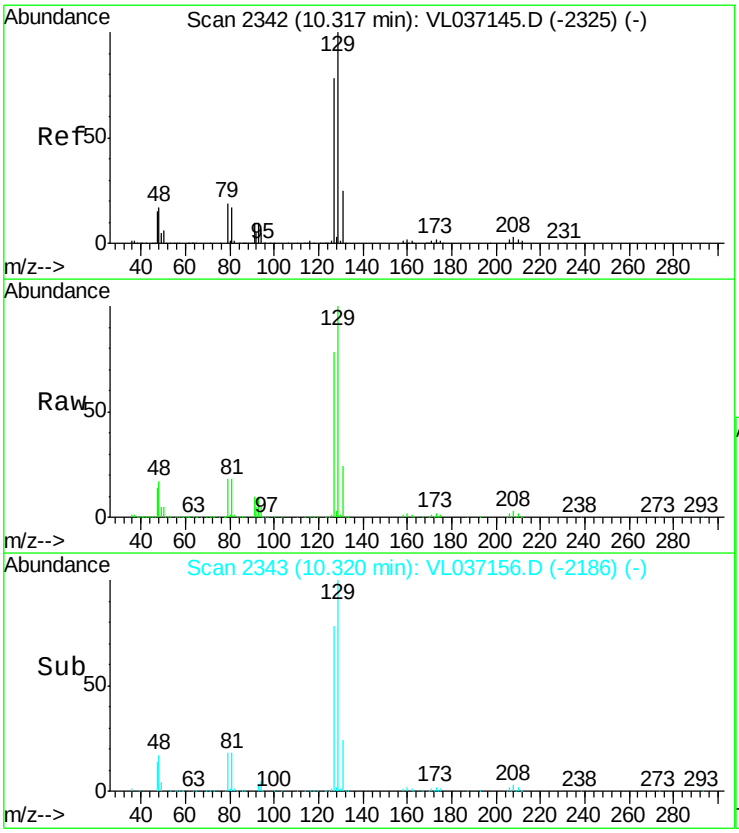
Tgt Ion: 97 Resp: 1511623

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.0	103.4
85	56.6	45.7	68.5
99	63.2	50.6	76.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

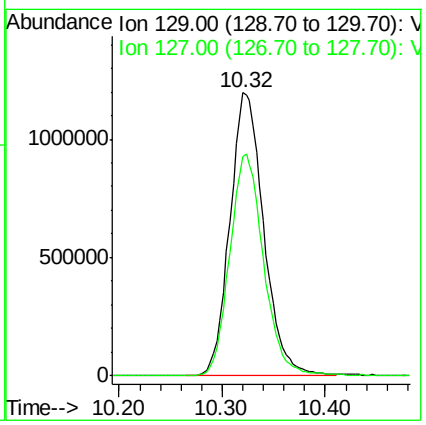
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

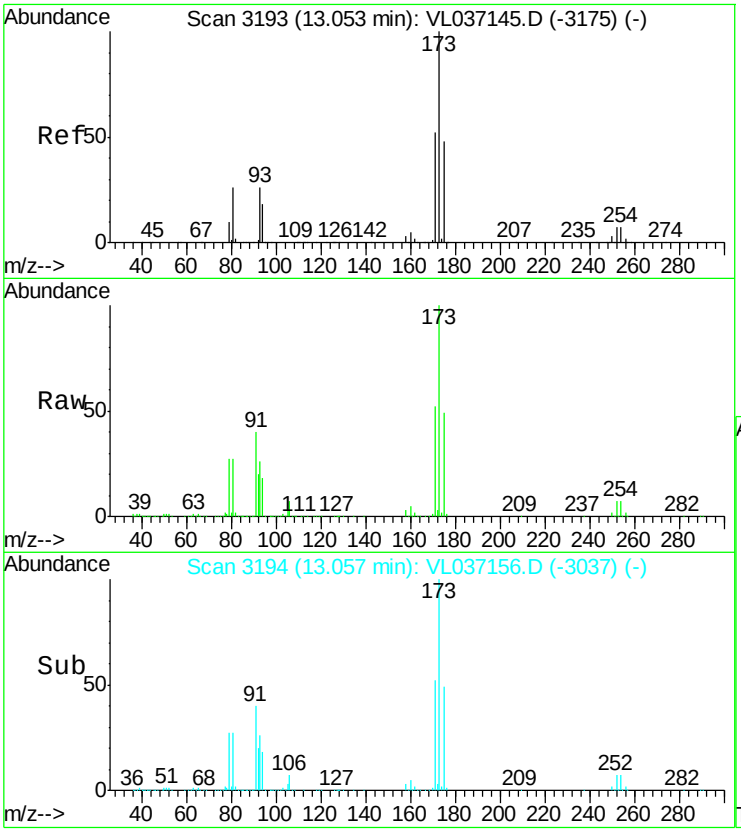


#48
Dibromochloromethane
Concen: 10.290 ppbv
RT: 10.32 min Scan# 2343
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:129 Resp: 2735021

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.4	118.2

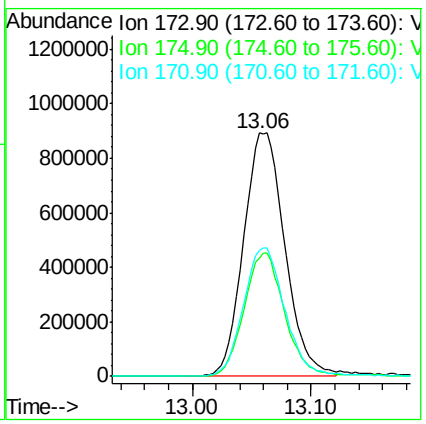




#49
Bromoform
Concen: 10.343 ppbv
RT: 13.06 min Scan# 3194
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

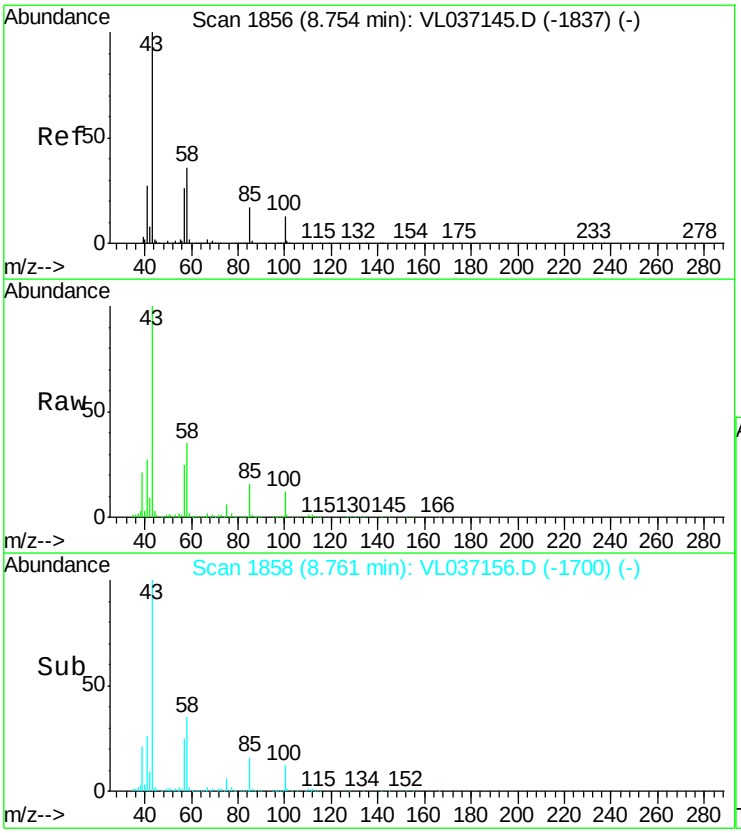
Tgt Ion:173 Resp: 2147588

Ion	Ratio	Lower	Upper
173	100		
175	50.3	39.8	59.6
171	53.7	42.5	63.7



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

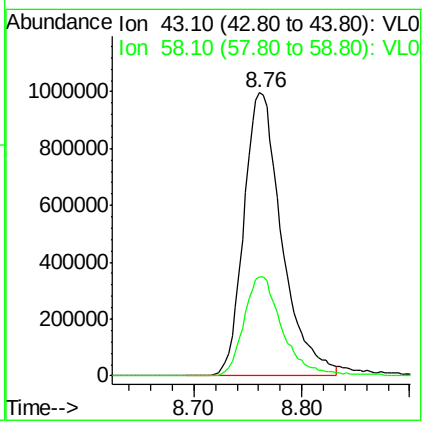
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

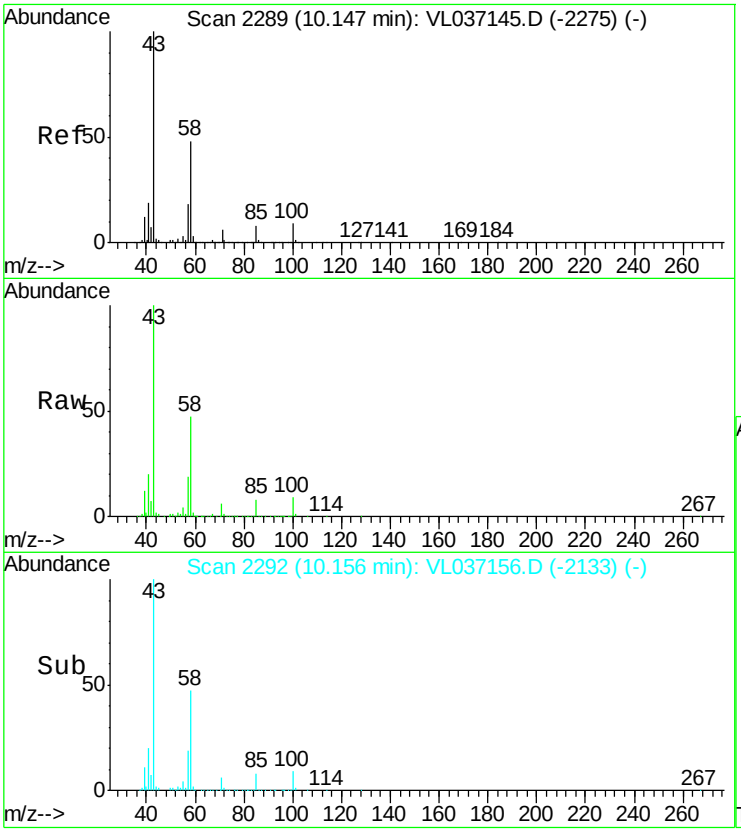


#50
4-Methyl-2-Pentanone
Concen: 9.191 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 43 Resp: 2434663

Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.0	43.6

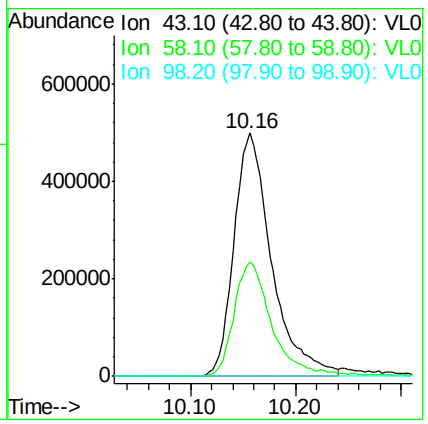




#51
2-Hexanone
Concen: 9.336 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

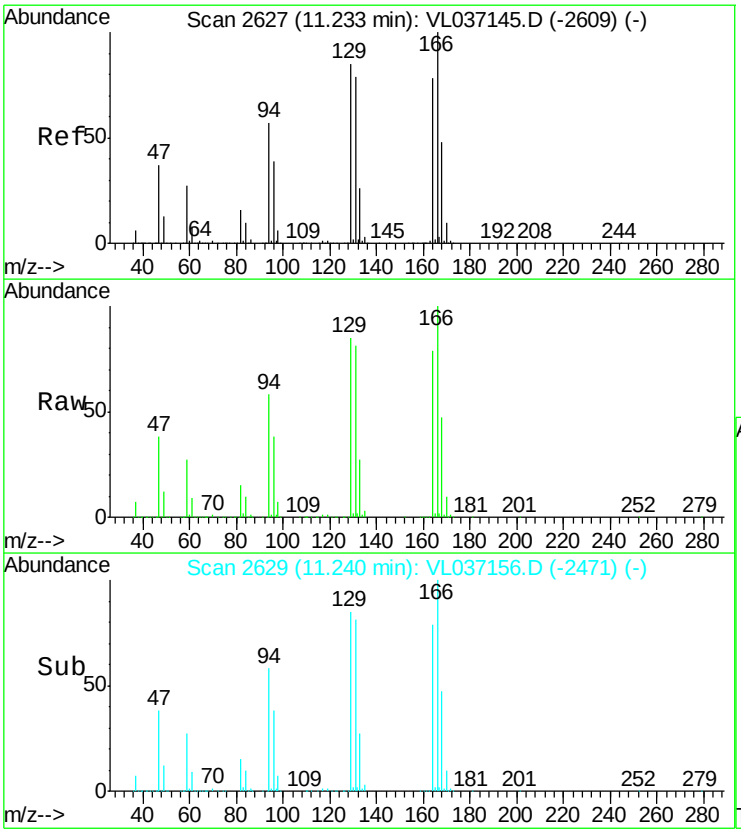
Tgt Ion: 43 Resp: 1234373

Ion	Ratio	Lower	Upper
43	100		
58	48.4	40.1	60.1
98	0.3	0.2	0.4



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

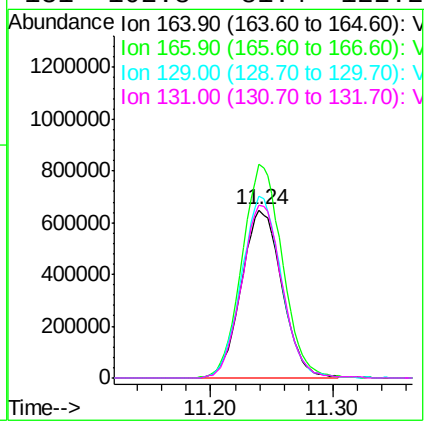
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

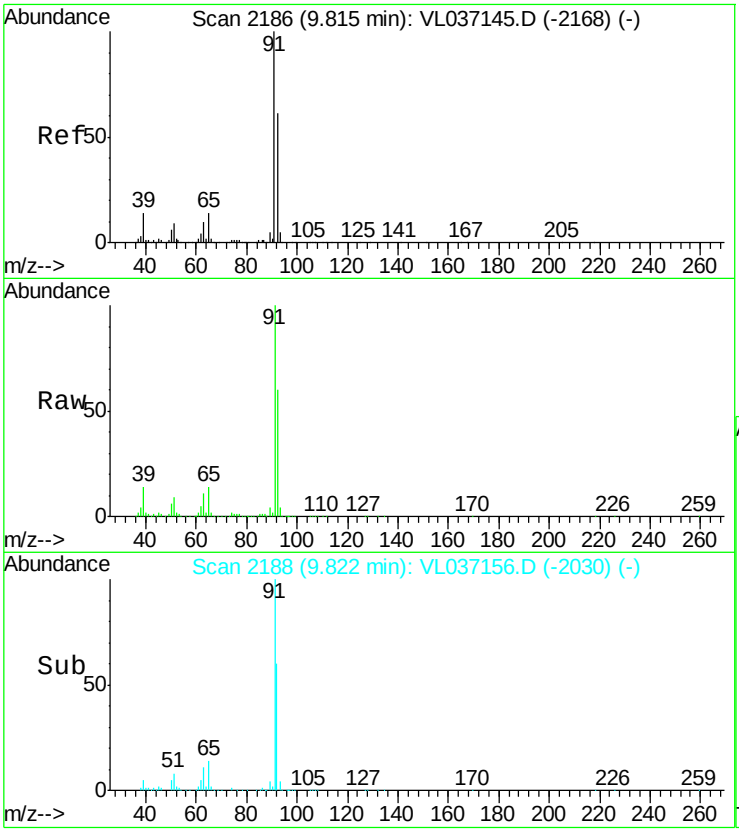


#52
Tetrachloroethene
Concen: 9.458 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:164 Resp: 1488154

Ion	Ratio	Lower	Upper
164	100		
166	127.4	102.6	154.0
129	108.4	87.4	131.2
131	102.8	81.4	122.2

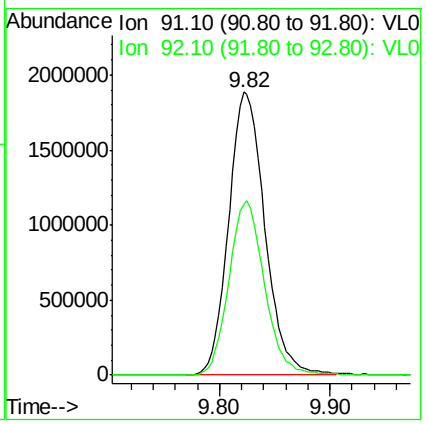




#53
Toluene
Concen: 9.473 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

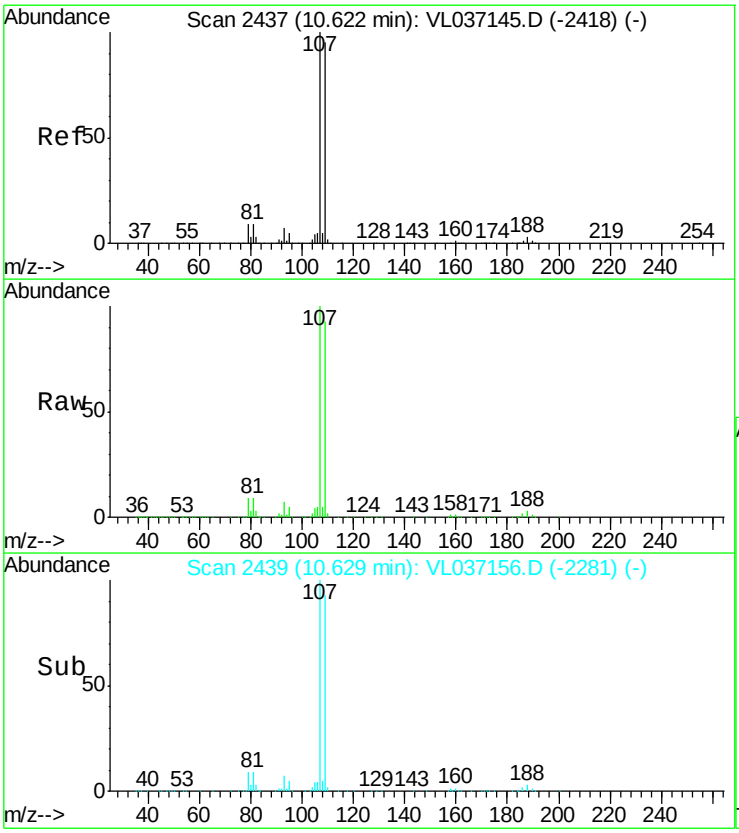
Tgt Ion: 91 Resp: 4283887

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.6	73.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

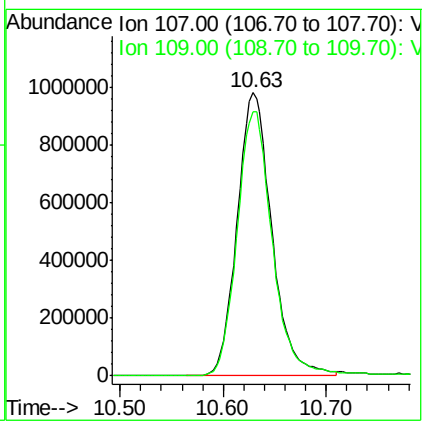
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

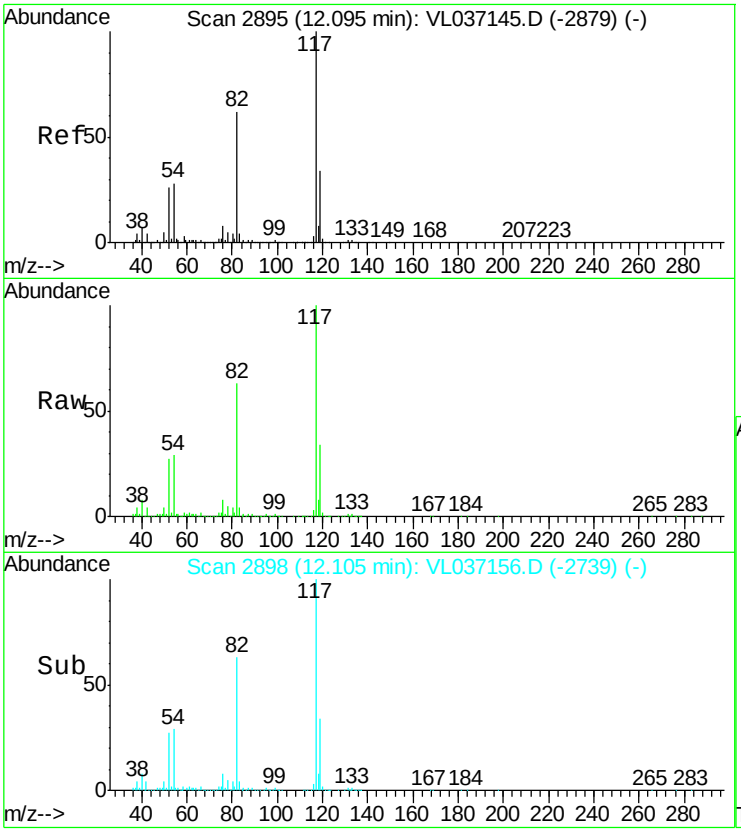


#54
1,2-Dibromoethane
Concen: 9.508 ppbv
RT: 10.63 min Scan# 2439
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:107 Resp: 2293767

Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.6	113.4

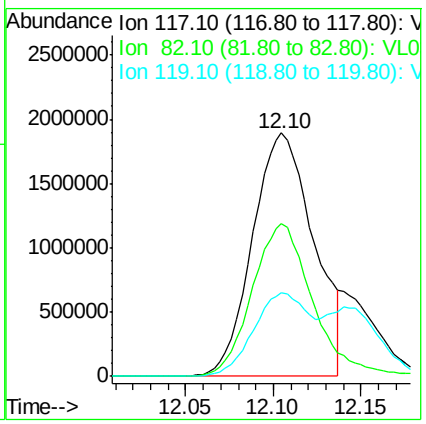




#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.10 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

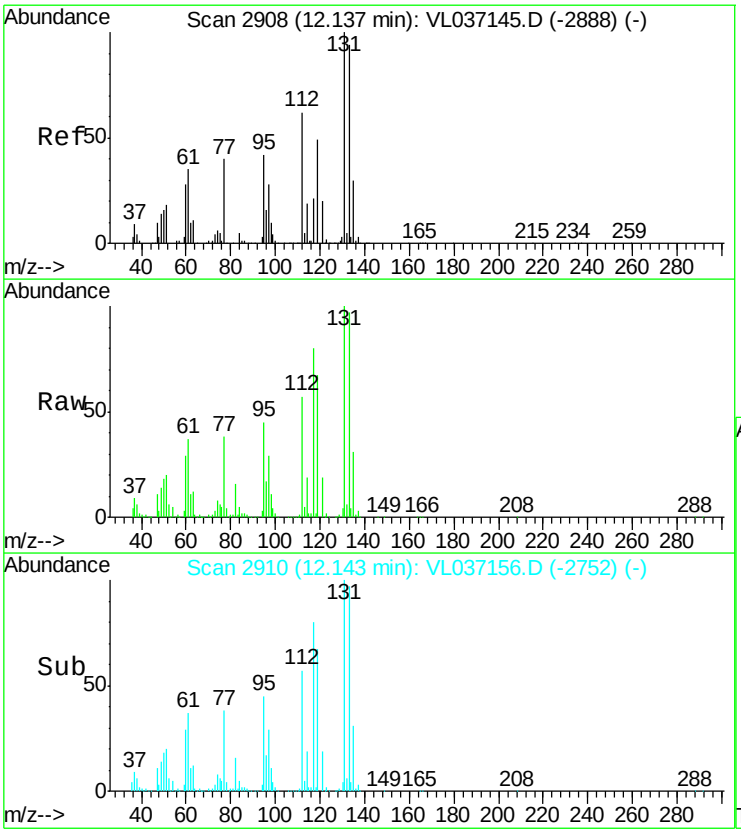
Tgt Ion:117 Resp: 4614955

Ion	Ratio	Lower	Upper
117	100		
82	62.9	50.6	76.0
119	32.5	27.1	40.7



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

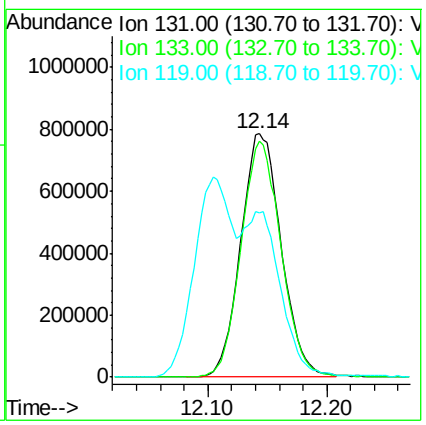
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

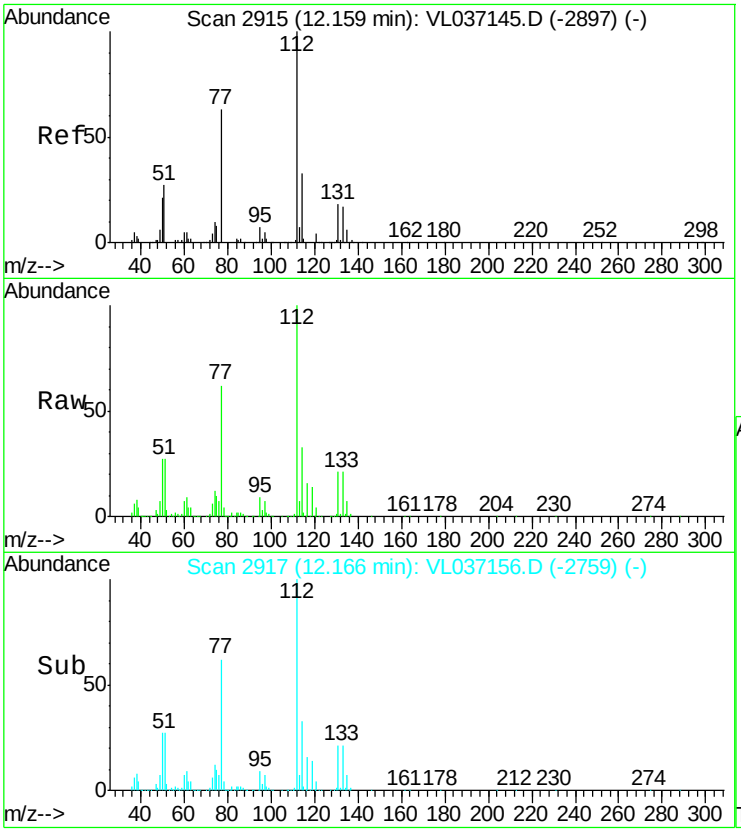


#56
1,1,1,2-Tetrachloroethane
Concen: 9.182 ppbv
RT: 12.14 min Scan# 2910
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:131 Resp: 1848023

Ion	Ratio	Lower	Upper
131	100		
133	96.4	76.7	115.1
119	60.2	50.7	76.1

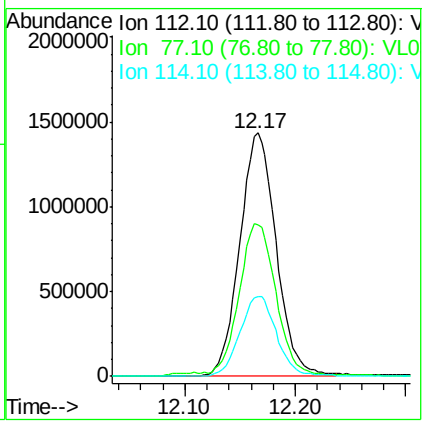




#57
Chlorobenzene
Concen: 8.884 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

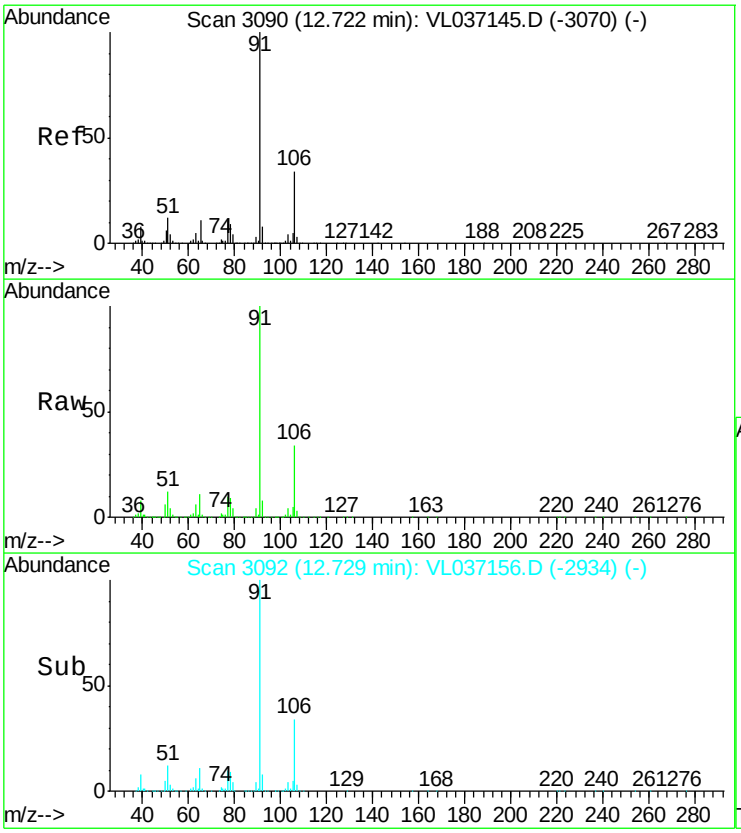
Tgt Ion:112 Resp: 3285445

Ion	Ratio	Lower	Upper
112	100		
77	61.6	51.4	77.2
114	32.6	29.7	36.3



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

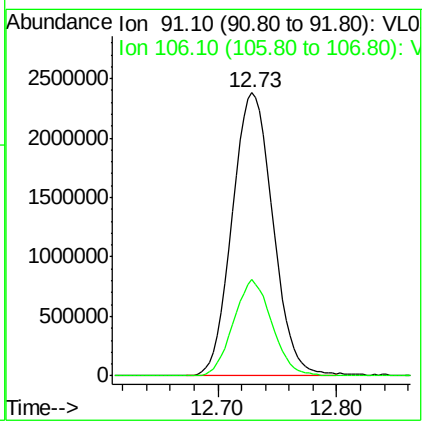
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

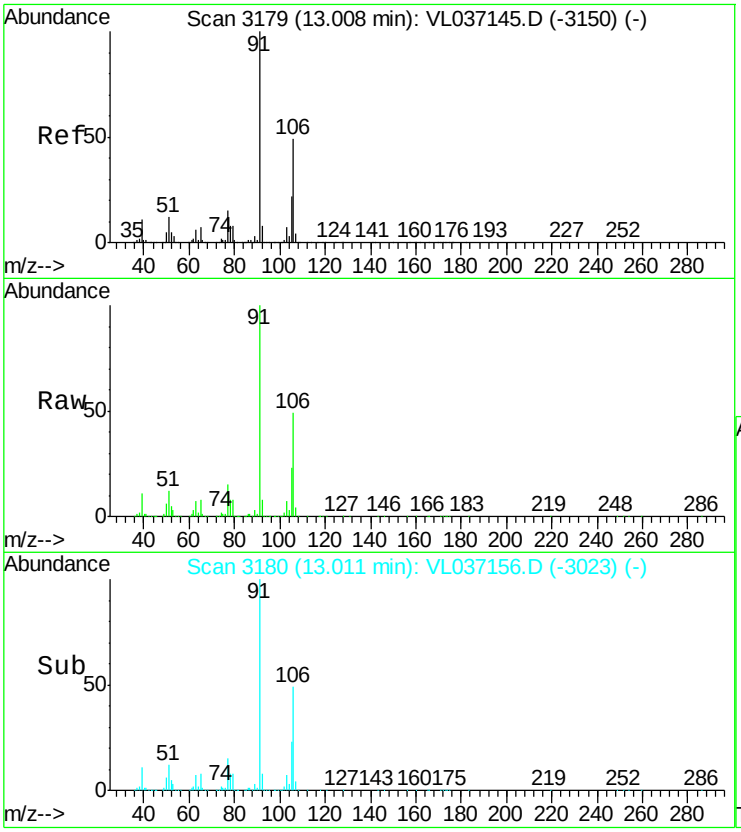


#58
Ethyl Benzene
Concen: 9.009 ppbv
RT: 12.73 min Scan# 3092
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 91 Resp: 5631954

Ion	Ratio	Lower	Upper
91	100		
106	34.1	26.8	40.2

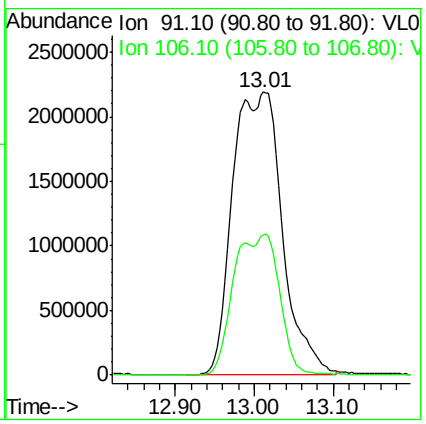




#59
m/p-Xylene
Concen: 17.921 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

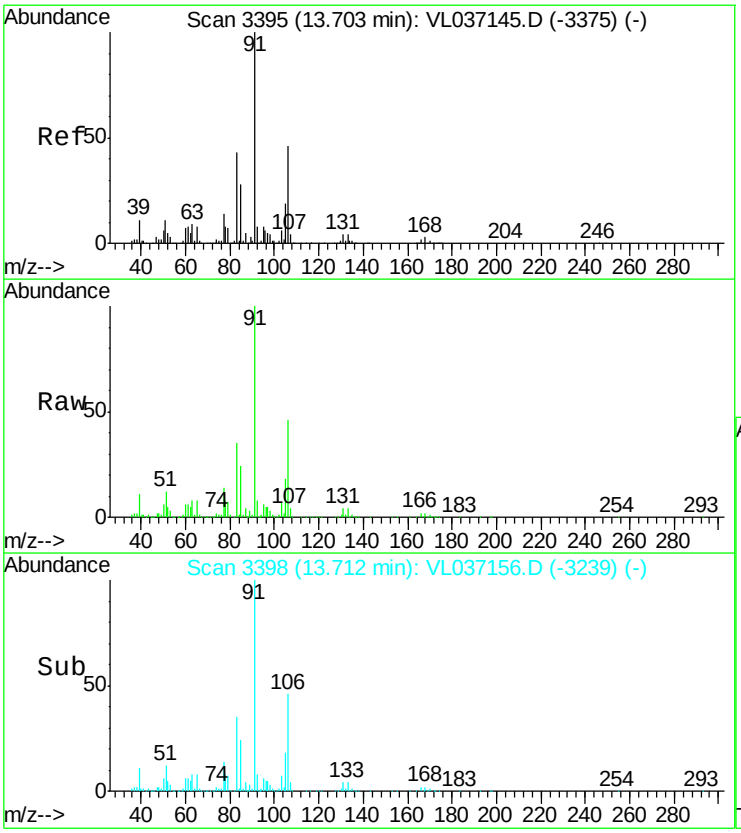
Tgt Ion: 91 Resp: 9519957

Ion	Ratio	Lower	Upper
91	100		
106	46.0	36.9	55.3



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

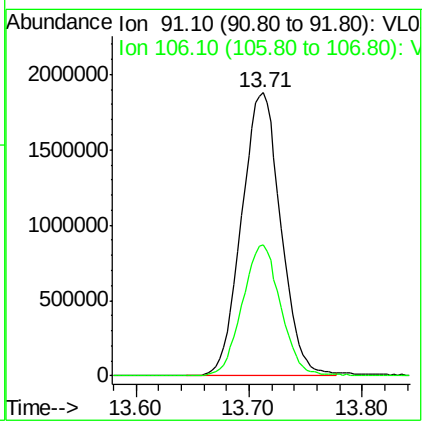
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

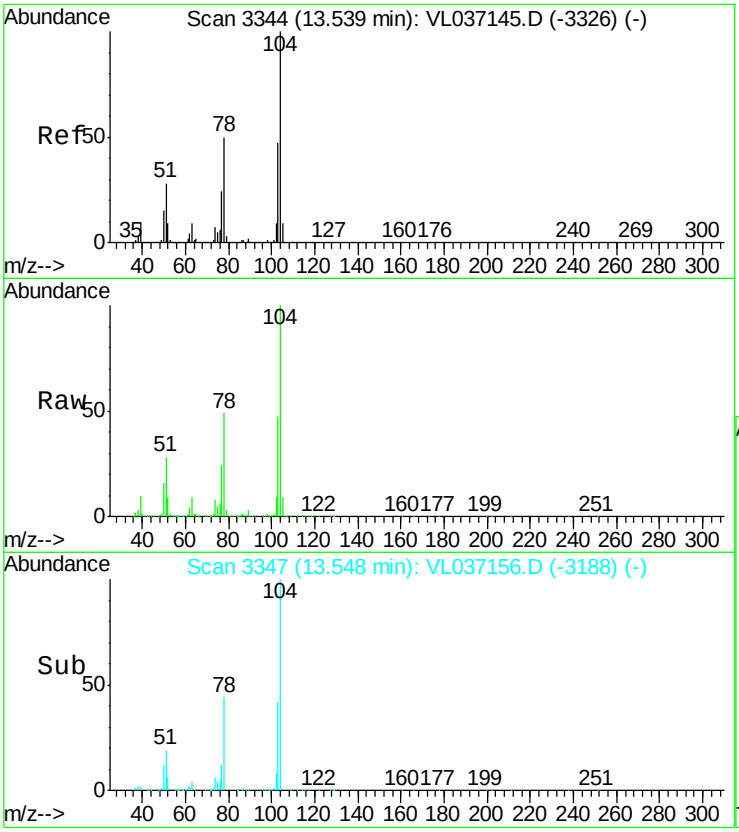


#60
o-Xylene
Concen: 8.855 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 91 Resp: 4516596

Ion	Ratio	Lower	Upper
91	100		
106	45.5	23.1	69.3

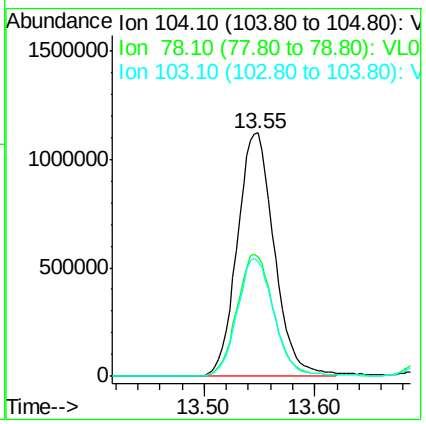




#61
Stvrene
Concen: 9.684 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

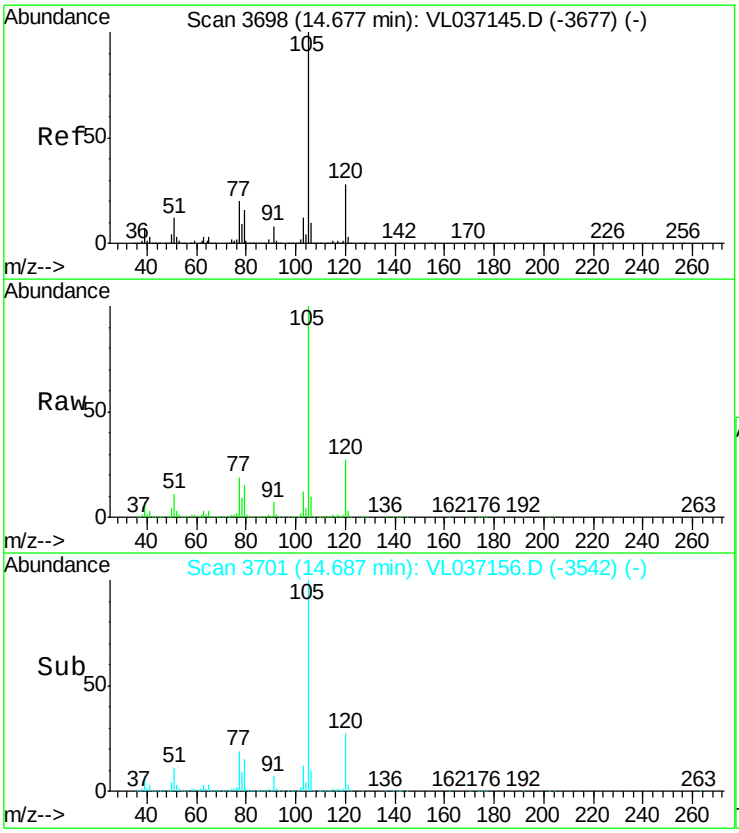
Tgt Ion:104 Resp: 2603937

Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.9	61.3
103	48.3	38.6	58.0



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

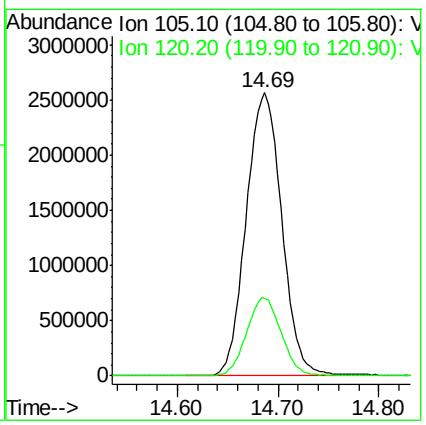
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

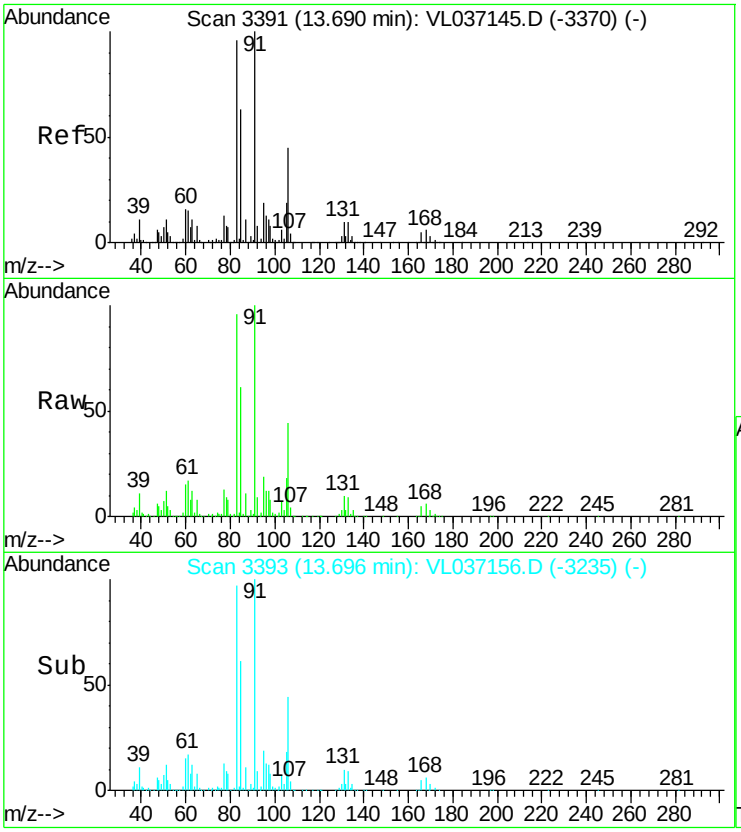


#62
Isopropylbenzene
Concen: 8.618 ppbv
RT: 14.69 min Scan# 3701
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:105 Resp: 6265433

Ion	Ratio	Lower	Upper
105	100		
120	27.0	21.8	32.6





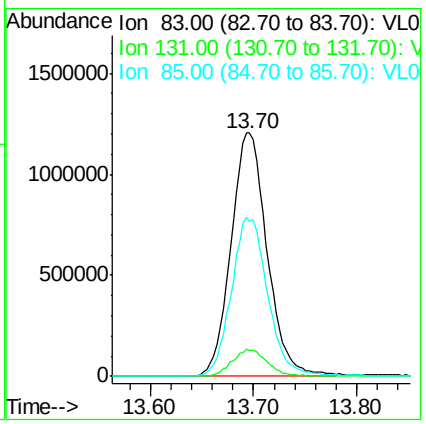
#63
1,1,2,2-Tetrachloroethane
Concen: 8.851 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

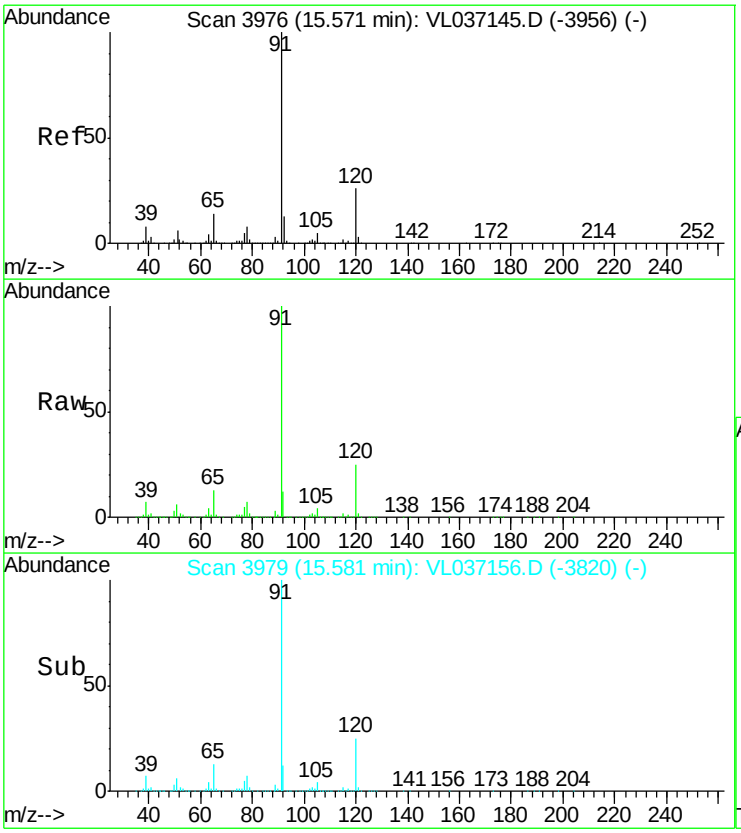
Tgt Ion: 83 Resp: 2935283

Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.4	16.2
85	66.5	33.3	99.9

Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

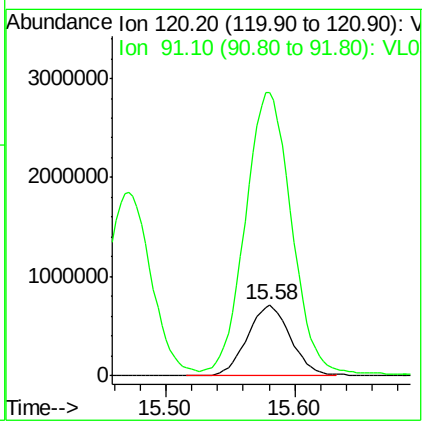


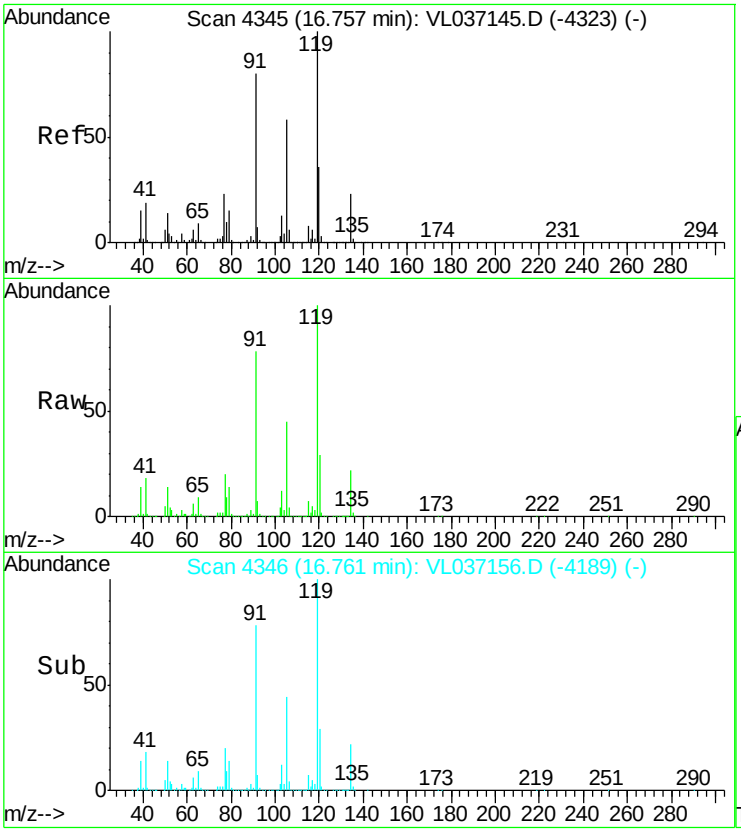


#64
n-propylbenzene
Concen: 8.998 ppbv
RT: 15.58 min Scan# 3979
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:120 Resp: 1668374

Ion	Ratio	Lower	Upper
120	100		
91	433.6	342.2	513.4

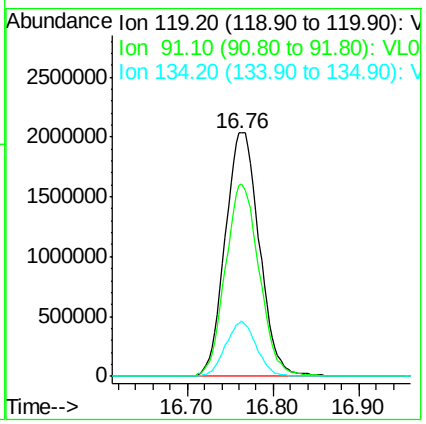




#65
tert-Butylbenzene
Concen: 8.539 ppbv
RT: 16.76 min Scan# 4346
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

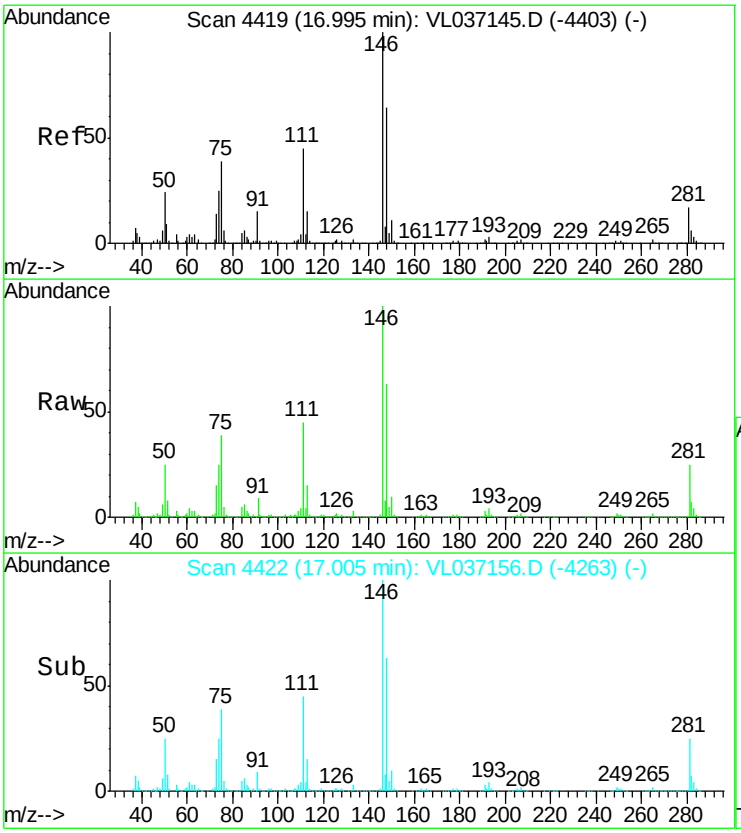
Tgt Ion:119 Resp: 5626438

Ion	Ratio	Lower	Upper
119	100		
91	78.3	62.8	94.2
134	20.3	16.5	24.7



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

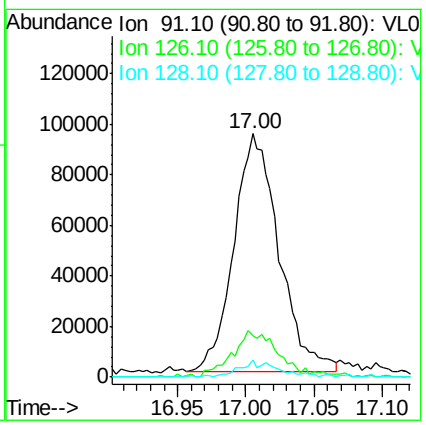
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

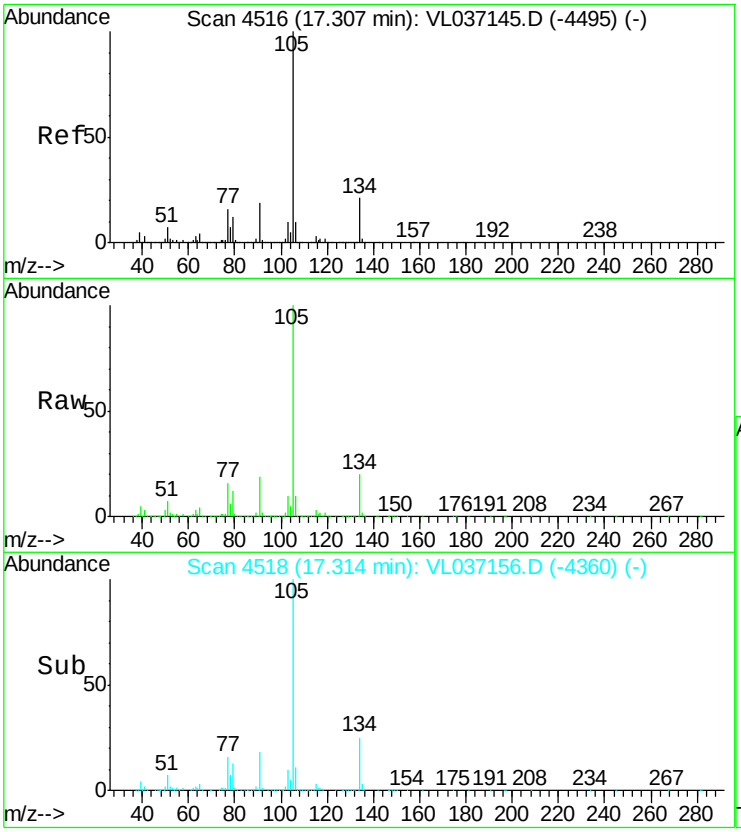


#66
Benzyl Chloride
Concen: 7.483 ppbv
RT: 17.00 min Scan# 4422
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 91 Resp: 215199

Ion	Ratio	Lower	Upper
91	100		
126	21.2	16.4	24.6
128	6.8	5.7	8.5





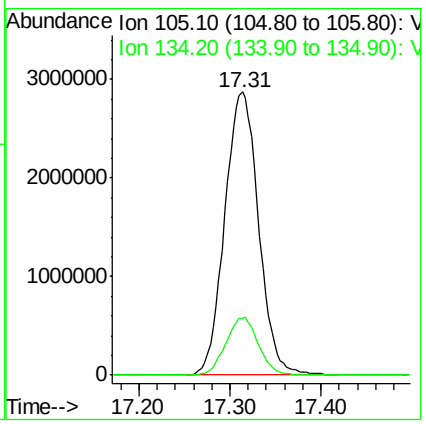
#67
sec-Butylbenzene
Concen: 8.449 ppbv
RT: 17.31 min Scan# 4518
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

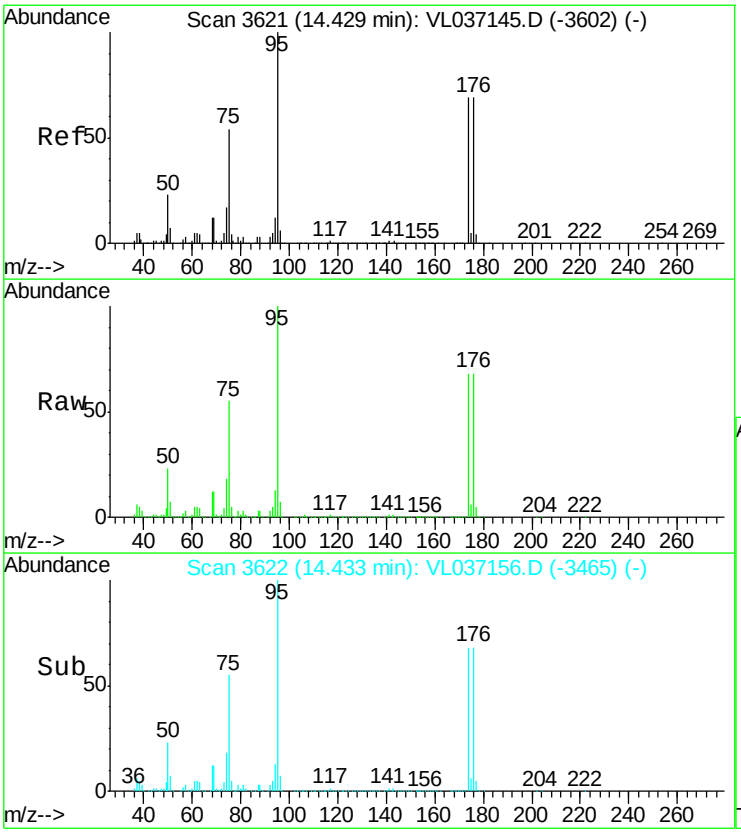
Tgt Ion:105 Resp: 7396767

Ion	Ratio	Lower	Upper
105	100		
134	19.7	16.0	24.0

Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

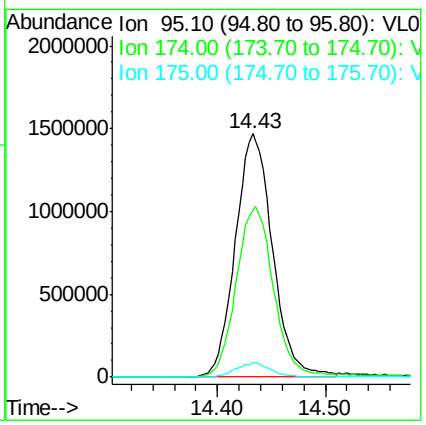


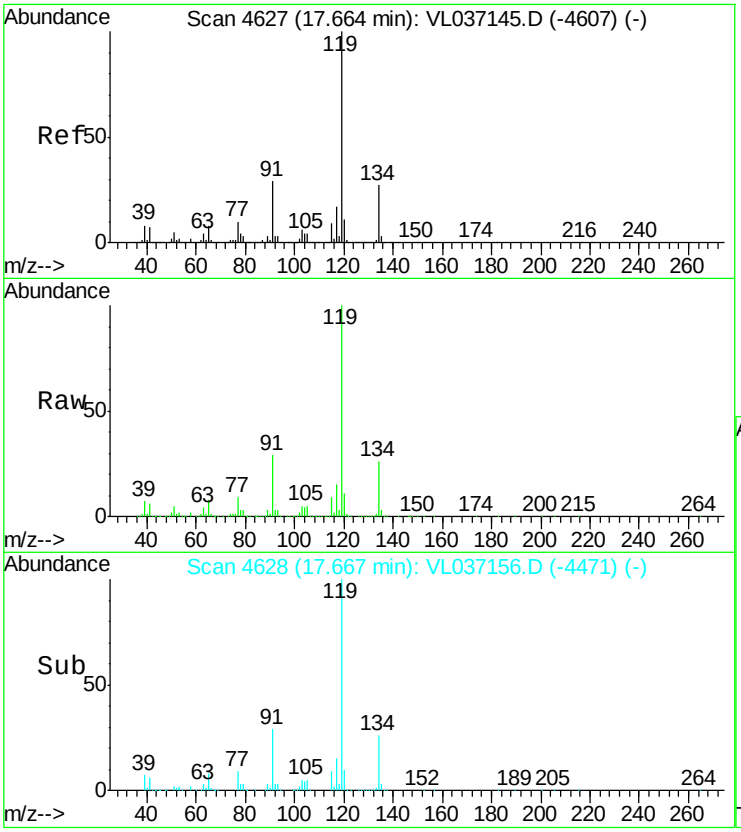


#68
1-Bromo-4-Fluorobenzene
Concen: 10.353 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 95 Resp: 3519078

Ion	Ratio	Lower	Upper
95	100		
174	71.9	57.6	86.4
175	5.6	4.4	6.6

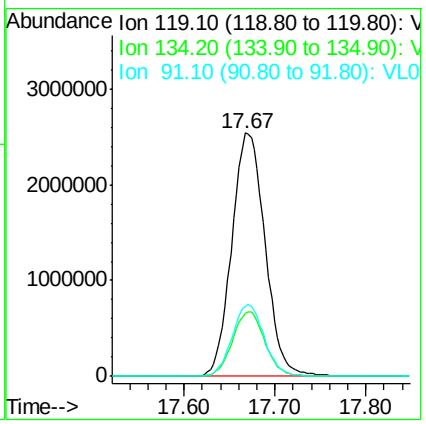




#69
p-Isopropyltoluene
Concen: 8.823 ppbv
RT: 17.67 min Scan# 4628
Delta R.T. 0.00 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

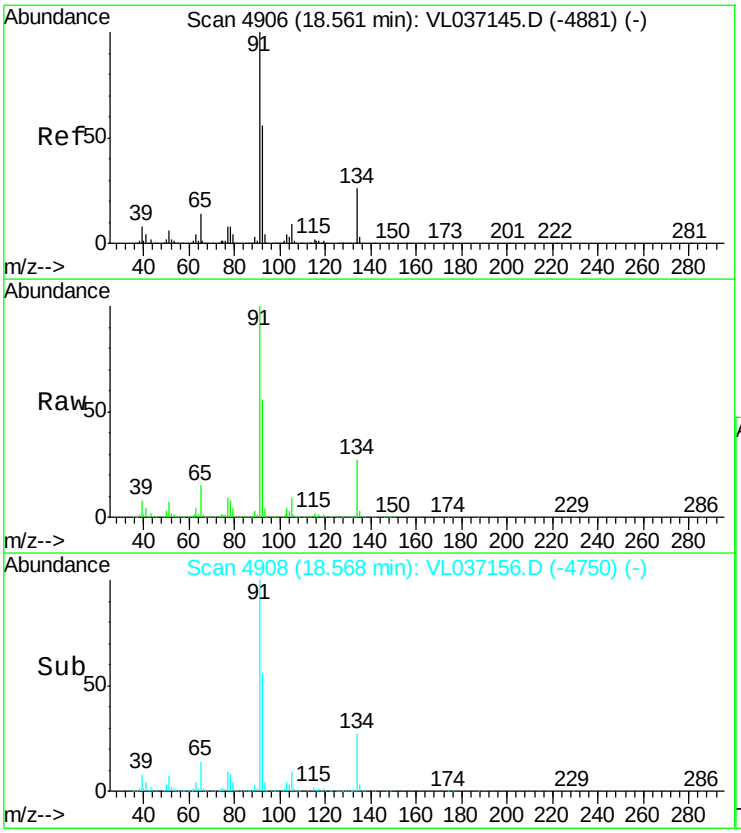
Tgt Ion:119 Resp: 6456910

Ion	Ratio	Lower	Upper
119	100		
134	26.0	21.2	31.8
91	28.4	22.9	34.3



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

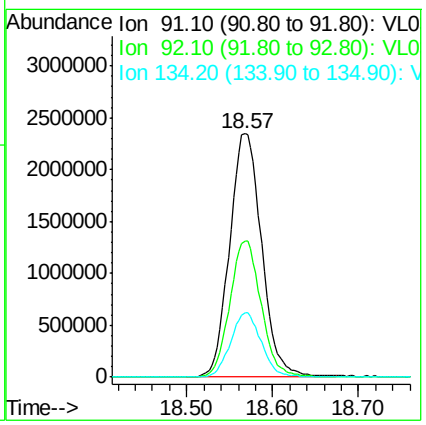
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

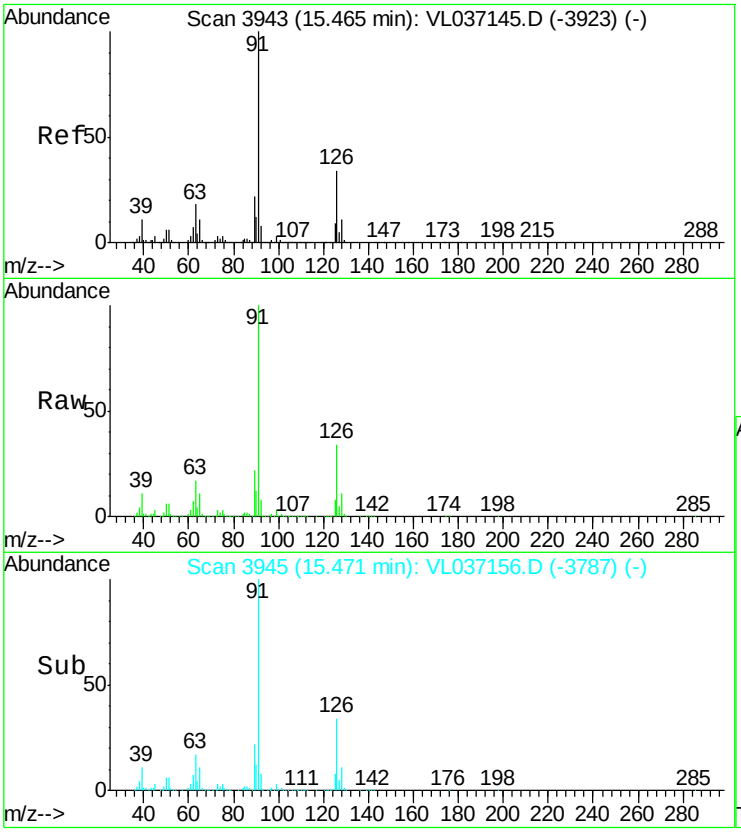


#70
n-Butylbenzene
Concen: 9.062 ppbv
RT: 18.57 min Scan# 4908
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion: 91 Resp: 6067564

Ion	Ratio	Lower	Upper
91	100		
92	55.0	44.0	66.0
134	25.5	20.4	30.6

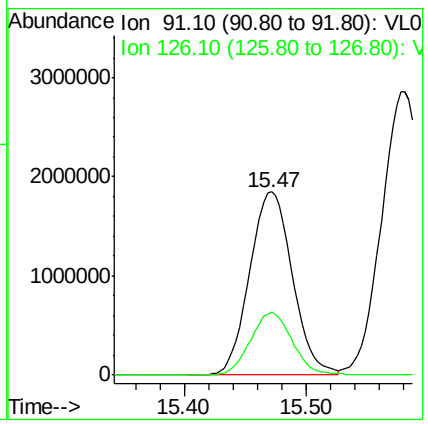




#71
2-Chlorotoluene
Concen: 8.656 ppbv
RT: 15.47 min Scan# 3945
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

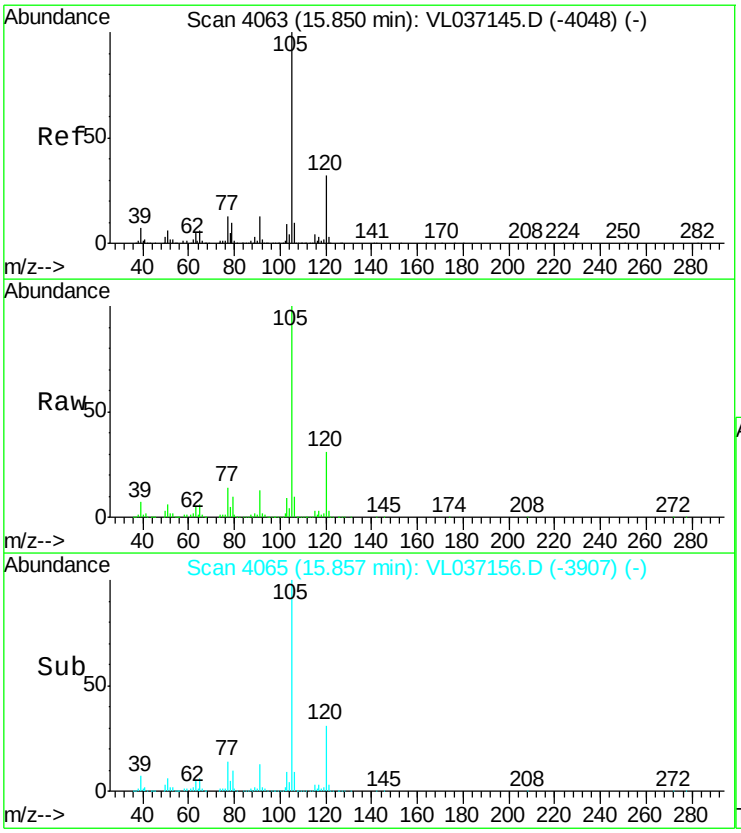
Tgt Ion: 91 Resp: 4488980

Ion	Ratio	Lower	Upper
91	100		
126	34.0	13.4	53.6



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

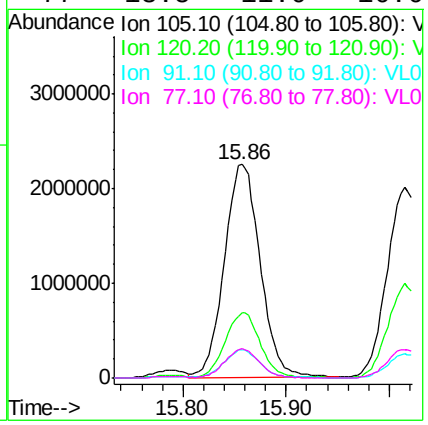
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

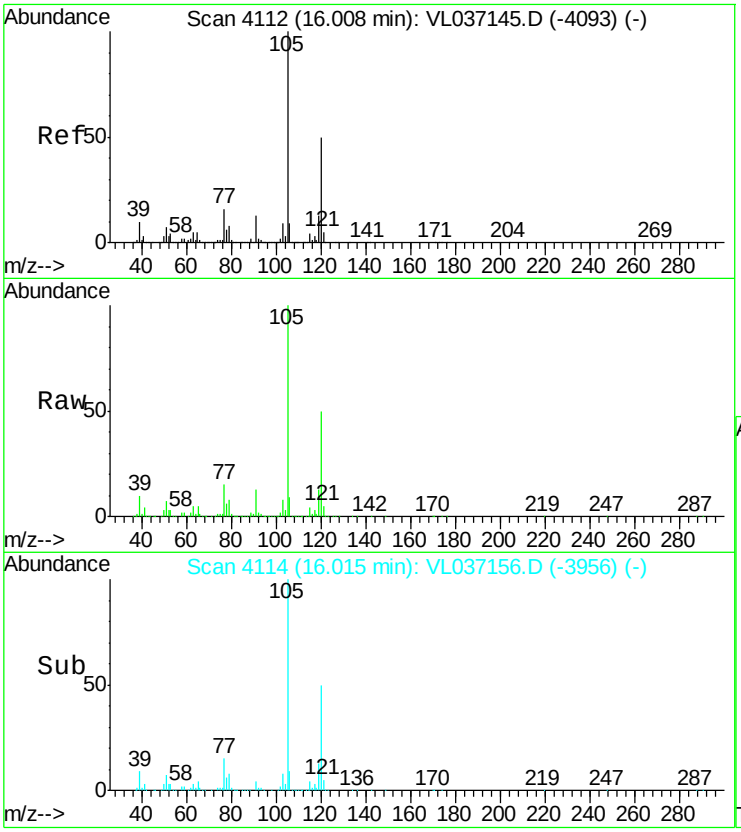


#72
4-Ethyltoluene
Concen: 9.144 ppbv
RT: 15.86 min Scan# 4065
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:105 Resp: 5417905

Ion	Ratio	Lower	Upper
105	100		
120	30.4	25.1	37.7
91	13.0	10.3	15.5
77	13.5	11.0	16.6

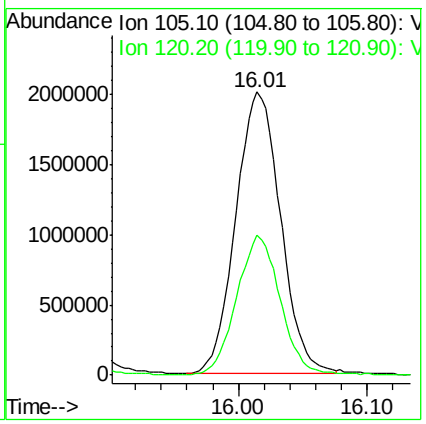




#73
1,3,5-Trimethylbenzene
Concen: 8.613 ppbv
RT: 16.01 min Scan# 4114
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

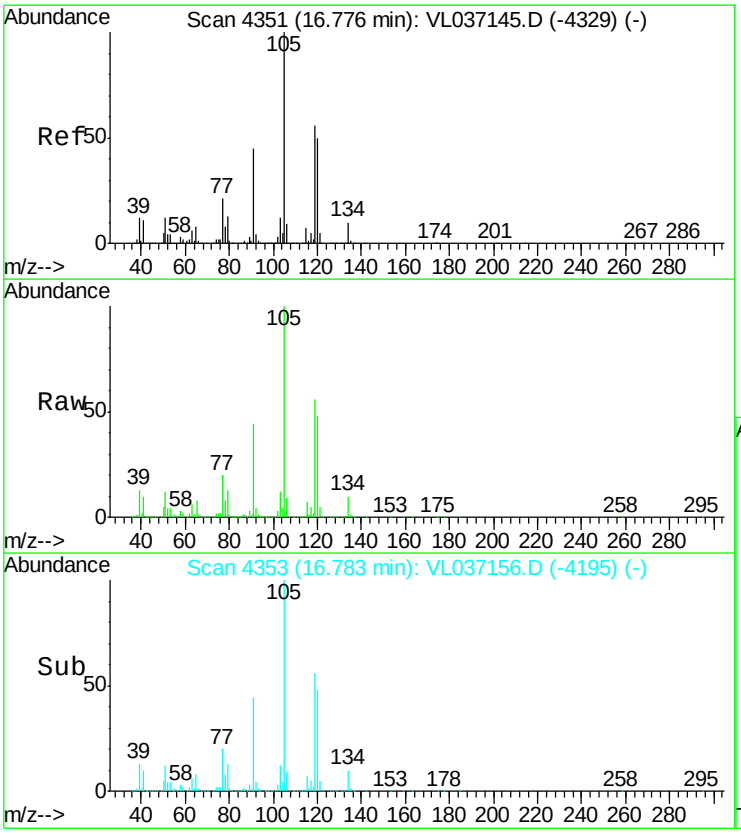
Tgt Ion:105 Resp: 4840067

Ion	Ratio	Lower	Upper
105	100		
120	49.7	39.7	59.5



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

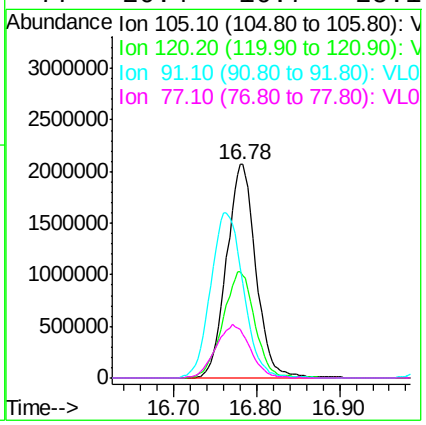
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

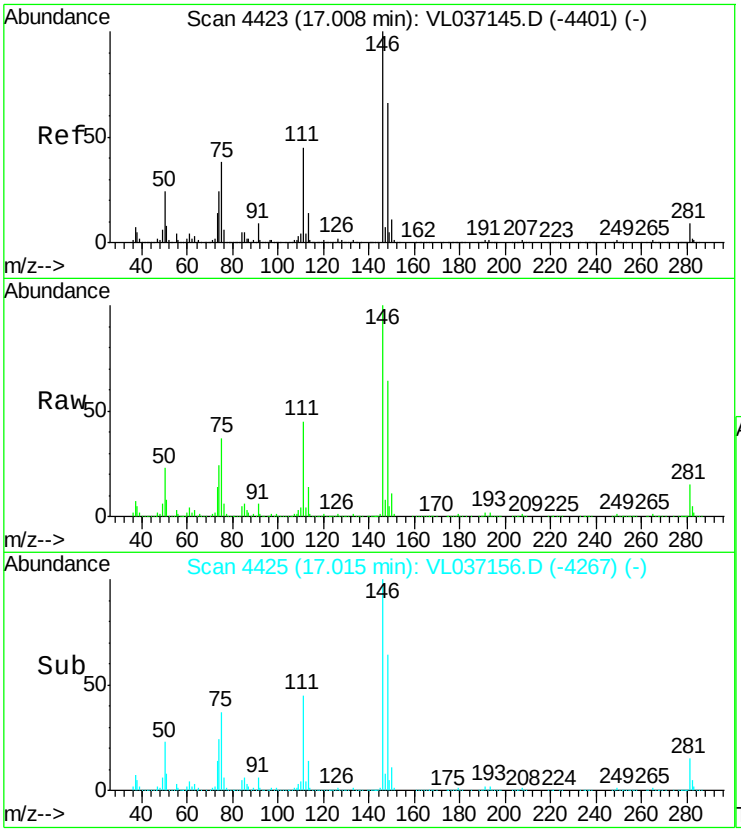


#74
1,2,4-Trimethylbenzene
Concen: 8.879 ppbv
RT: 16.78 min Scan# 4353
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:105 Resp: 5077239

Ion	Ratio	Lower	Upper
105	100		
120	47.9	39.7	59.5
91	44.3	35.8	53.8
77	20.4	16.7	25.1

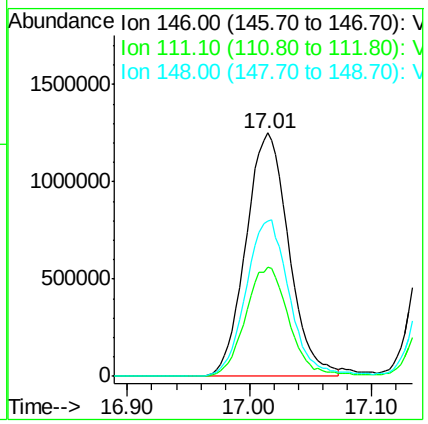




#75
1,3-Dichlorobenzene
Concen: 8.643 ppbv
RT: 17.01 min Scan# 4425
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

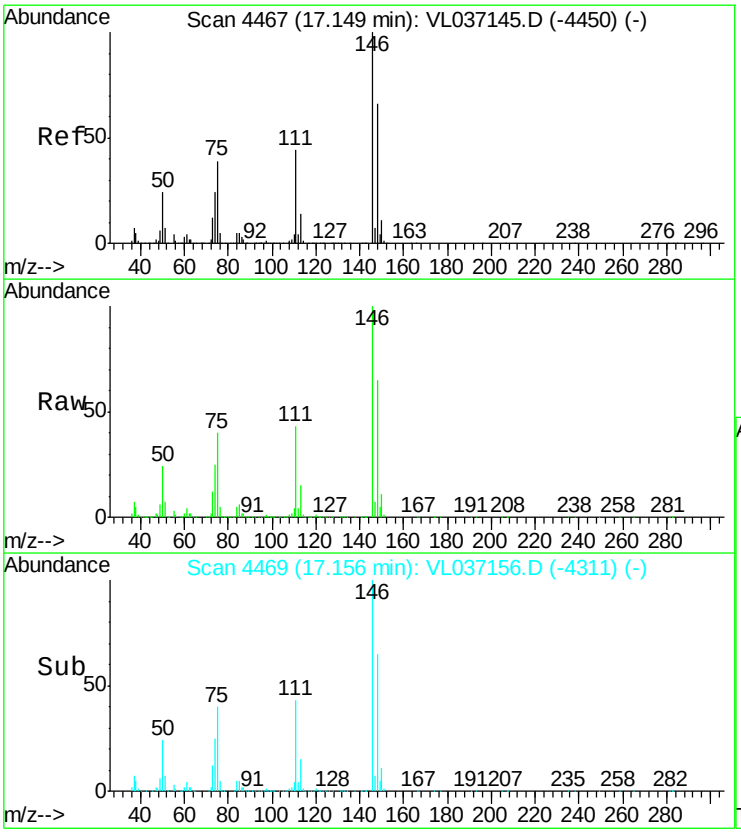
Tgt Ion:146 Resp: 3043116

Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.4	67.2
148	65.3	32.3	96.9



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

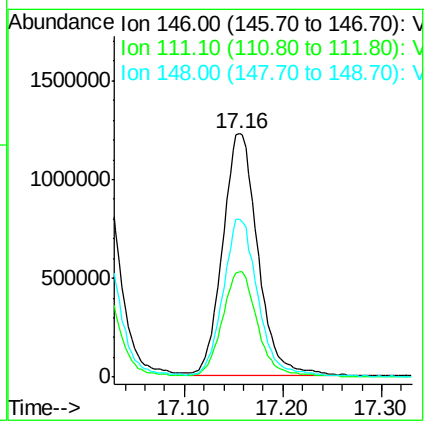
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

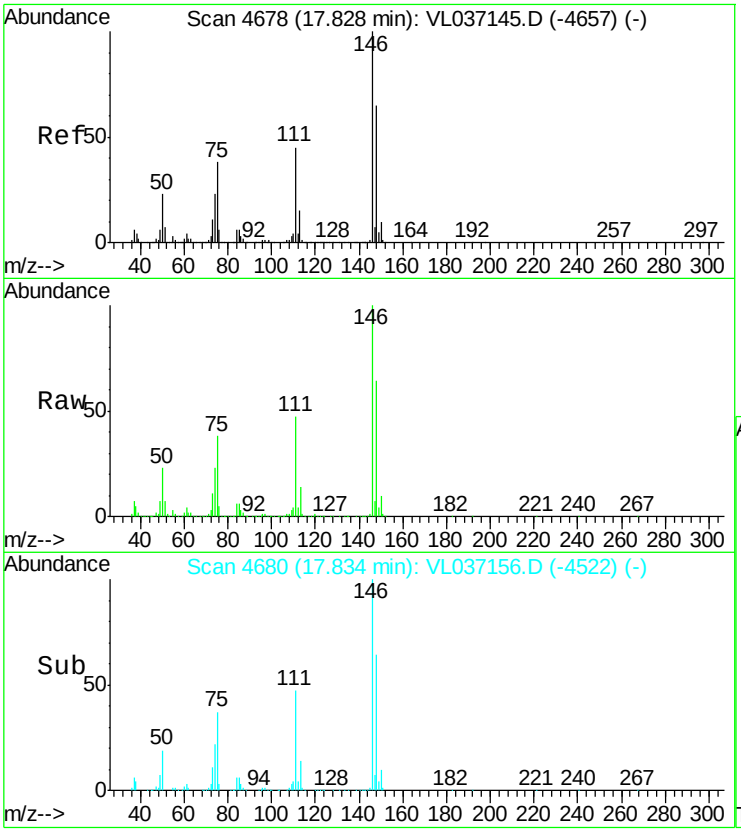


#76
1,4-Dichlorobenzene
Concen: 8.726 ppbv
RT: 17.16 min Scan# 4469
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:146 Resp: 3051435

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.9	65.5
148	65.1	32.4	97.0

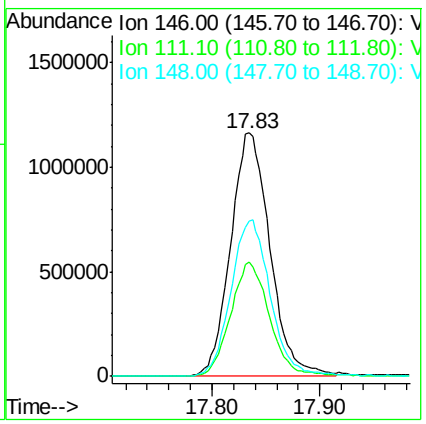




#77
1,2-Dichlorobenzene
Concen: 8.453 ppbv
RT: 17.83 min Scan# 4680
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

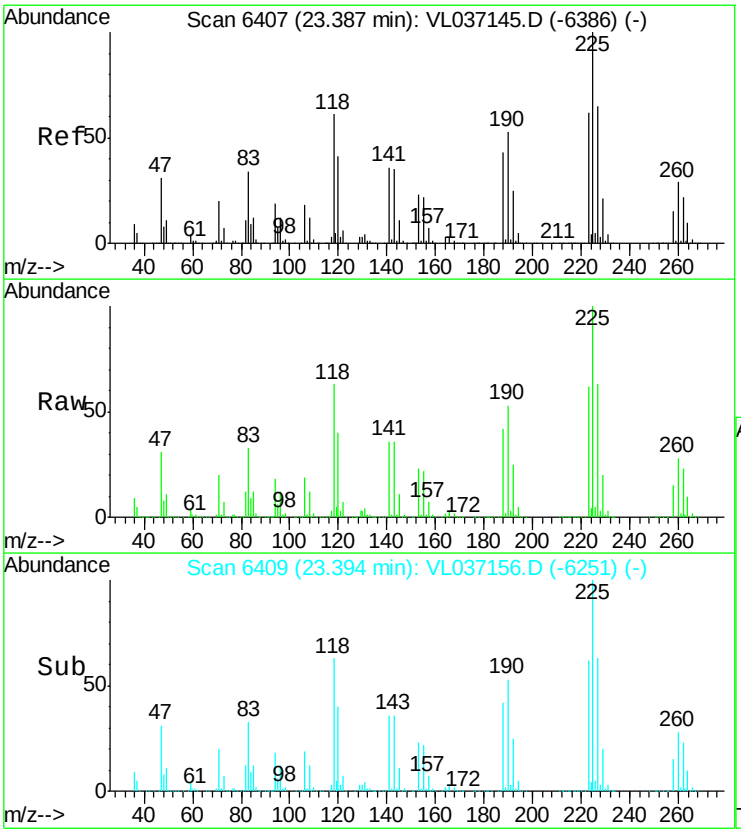
Tgt Ion:146 Resp: 2934554

Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.1	69.3
148	64.8	32.5	97.5



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

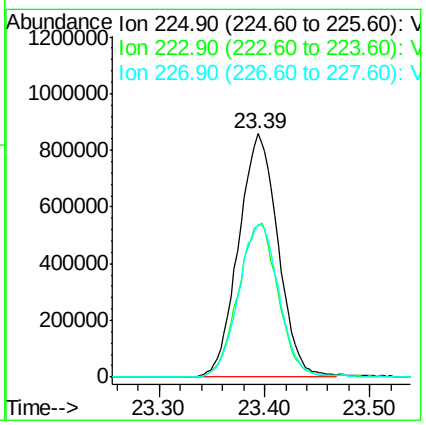
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

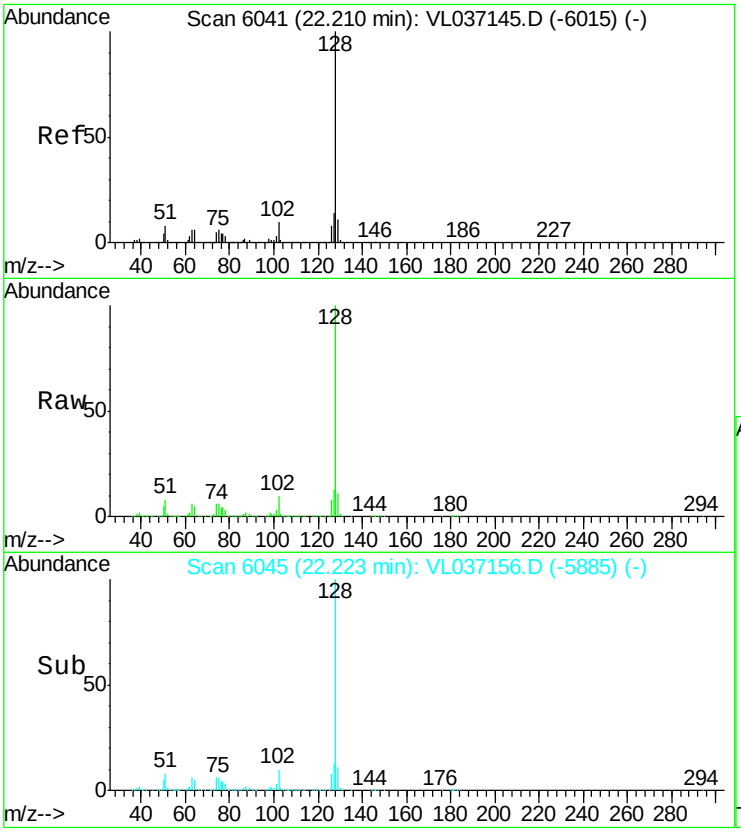


#78
Hexachloro-1,3-Butadiene
Concen: 9.095 ppbv
RT: 23.39 min Scan# 6409
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:225 Resp: 2238179

Ion	Ratio	Lower	Upper
225	100		
223	64.3	52.2	78.2
227	64.9	51.5	77.3

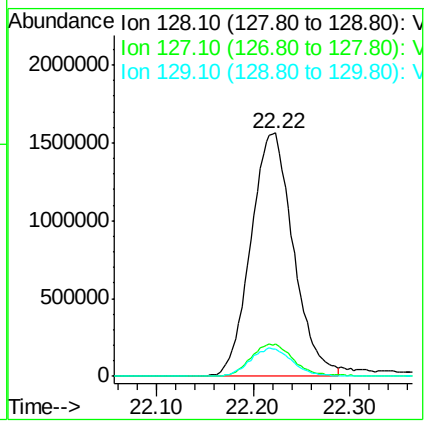




#79
Naphthalene
Concen: 13.842 ppbv
RT: 22.22 min Scan# 6045
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

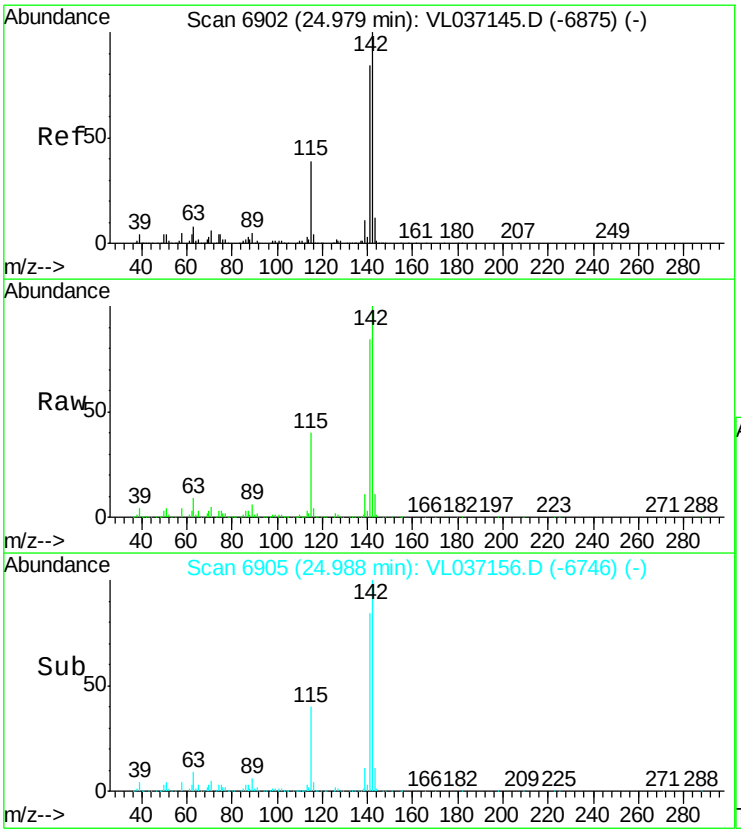
Tgt Ion:128 Resp: 4764209

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.9	16.3
129	11.5	9.0	13.4



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

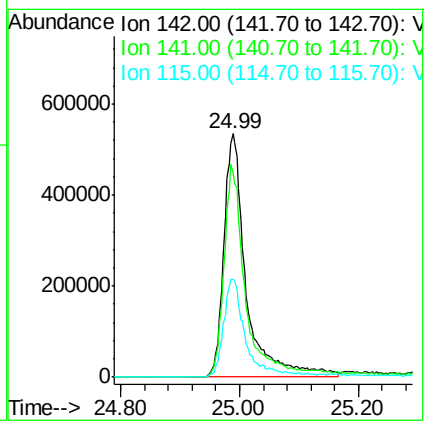
Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM

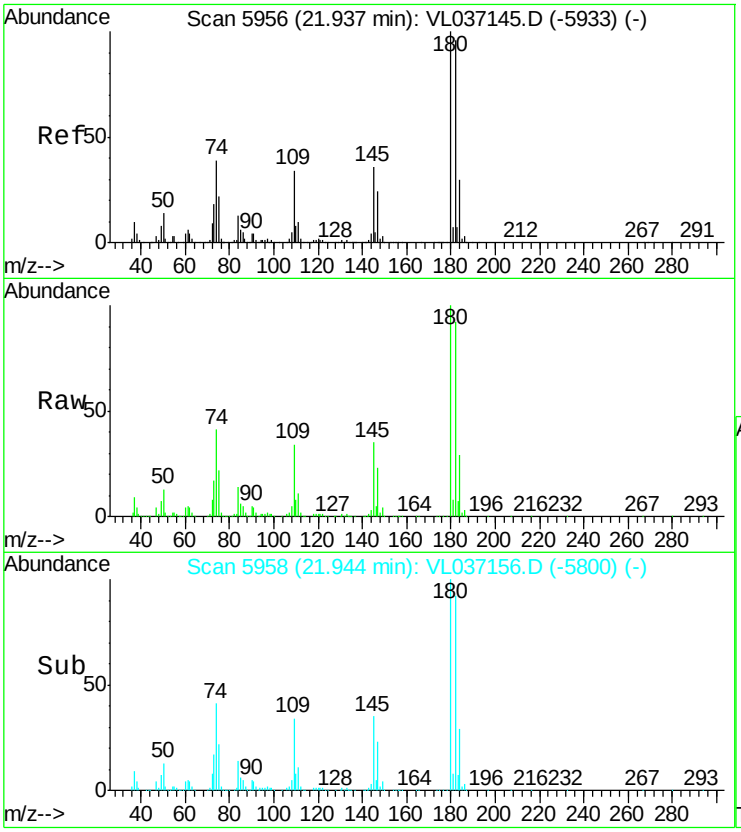


#80
Naphthalene,2-methyl-
Concen: 16.776 ppbv
RT: 24.99 min Scan# 6905
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:142 Resp: 1396976

Ion	Ratio	Lower	Upper
142	100		
141	86.7	66.7	100.1
115	40.1	32.2	48.2

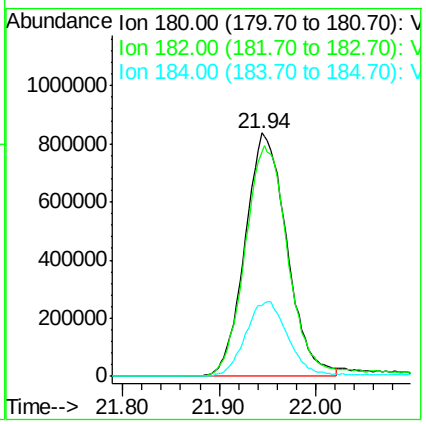




#81
1,2,4-Trichlorobenzene
Concen: 11.510 ppbv
RT: 21.94 min Scan# 5958
Delta R.T. 0.01 min
Lab File: VL037156.D
Acq: 15 Jun 2021 11:37

Tgt Ion:180 Resp: 2519831

Ion	Ratio	Lower	Upper
180	100		
182	100.9	79.8	119.6
184	31.8	25.1	37.7



Instrument :
MSVOA_L
ClientSampleId :
VL0615ABS01

Manual Integrations APPROVED
MMDadoda
6/16/2021 5:01:28 PM