

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034571.D
 Acq On : 30 Jan 2020 14:01
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:24:00 PM

Quant Time: Jan 30 17:18:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:18:14 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1146723	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2333120	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2267811	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1981373	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	142844	0.790	ppbv	88
3) Chlorodifluoromethane	2.95	51	76818	0.562	ppbv	95
4) Chloromethane	3.10	50	44675	0.550	ppbv	90
5) Vinyl Chloride	3.22	62	40108	0.505	ppbv	97
6) Bromomethane	3.44	94	23496	0.594	ppbv	87
7) Chloroethane	3.53	64	16476	0.595	ppbv	95
8) Dichlorotetrafluoroethane	3.15	85	109981	0.606	ppbv	100
9) Propene	2.97	41	28346	0.538	ppbv	100
10) Heptane	8.13	43	61171	0.450	ppbv	96
11) Trichlorofluoromethane	3.93	101	128555	0.614	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.47	101	85852	0.645	ppbv	92
13) Ethanol	3.59	45	10091m	0.690	ppbv	
14) Bromoethene	3.71	108	30985	0.576	ppbv #	96
15) Acetone	3.83	43	99478	0.594	ppbv	95
16) 1,3-Butadiene	3.29	39	30869	0.480	ppbv	90
17) tert-Butyl alcohol	4.28	59	75951	0.567	ppbv	95
18) 1,1-Dichloroethene	4.27	96	33424	0.576	ppbv	89
19) Isopropyl Alcohol	3.95	45	66775m	0.616	ppbv	
20) Methylene Chloride	4.32	84	38574	0.586	ppbv	85
21) Allyl Chloride	4.39	41	54119m	0.563	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	35227	0.597	ppbv #	88
23) Vinyl Acetate	5.06	43	96419m	0.499	ppbv	
24) 1,1-Dichloroethane	4.99	63	85263	0.549	ppbv #	97
25) Ethyl Acetate	5.67	43	144116	0.551	ppbv	99
26) Hexane	5.68	57	58552	0.532	ppbv	93
27) Carbon Disulfide	4.53	76	71860	0.516	ppbv #	89
28) Methyl tert-Butyl Ether	5.03	73	89944	0.489	ppbv	96
29) Chloroform	5.74	83	107825m	0.566	ppbv	
30) Cyclohexane	7.13	84	41863m	0.511	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	56434	0.503	ppbv #	86
32) 1,1,1-Trichloroethane	6.51	97	105771m	0.535	ppbv	
34) 2-Butanone	5.24	43	81662	0.490	ppbv	95
35) Carbon Tetrachloride	7.02	117	110637	0.523	ppbv	89
36) Benzene	6.89	78	101017	0.497	ppbv	99
37) 1,2-Dichloroethane	6.30	62	93047m	0.563	ppbv	
38) Trichloroethene	7.84	130	42580	0.518	ppbv	94
39) 1,2-Dichloropropane	7.62	63	44017	0.526	ppbv #	89
40) 1,4-Dioxane	7.88	88	18236m	0.539	ppbv	
41) Tetrahydrofuran	6.06	42	40801m	0.477	ppbv	
42) Bromodichloromethane	7.80	83	108162	0.532	ppbv	100
43) Methyl Methacrylate	8.02	69	37971m	0.458	ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL013020\
 Data File : VL034571.D
 Acq On : 30 Jan 2020 14:01
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:24:00 PM

Quant Time: Jan 30 17:18:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 17:18:14 2020
 QLast Update : Thu Jan 30 14:46:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	180768	0.480	ppbv	95
45) t-1,3-Dichloropropene	9.29	75	44666m	0.418	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	51273m	0.420	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	45745m	0.496	ppbv	
48) Dibromochloromethane	10.33	129	80409m	0.503	ppbv	
49) Bromoform	13.07	173	63513	0.439	ppbv	94
50) 4-Methyl-2-Pentanone	8.77	43	113608m	0.469	ppbv	
51) 2-Hexanone	10.17	43	79343	0.406	ppbv #	96
52) Tetrachloroethene	11.25	164	39401m	0.496	ppbv	
53) Toluene	9.83	91	96557	0.432	ppbv	100
54) 1,2-Dibromoethane	10.63	107	67294	0.502	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	59219m	0.541	ppbv	
57) Chlorobenzene	12.17	112	103358	0.552	ppbv #	85
58) Ethyl Benzene	12.74	91	142339	0.465	ppbv	94
59) m/p-Xylene	13.02	91	272048m	1.017	ppbv	
60) o-Xylene	13.73	91	132844	0.495	ppbv	98
61) Styrene	13.56	104	77697	0.423	ppbv	97
62) Isopropylbenzene	14.70	105	173014	0.493	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.70	83	114092m	0.530	ppbv	
64) n-propylbenzene	15.60	120	43270m	0.483	ppbv	
65) tert-Butylbenzene	16.78	119	155949m	0.492	ppbv	
66) Benzyl Chloride	17.03	91	55096m	0.396	ppbv	
67) sec-Butylbenzene	17.33	105	220635m	0.495	ppbv	
69) p-Isopropyltoluene	17.69	119	165248	0.457	ppbv	95
70) n-Butylbenzene	18.59	91	178654	0.458	ppbv	97
71) 2-Chlorotoluene	15.49	91	123245	0.452	ppbv	97
72) 4-Ethyltoluene	15.87	105	141525m	0.471	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	140020m	0.475	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	169905	0.539	ppbv #	88
75) 1,3-Dichlorobenzene	17.04	146	100352	0.532	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	97367m	0.536	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	96789m	0.546	ppbv	
78) Hexachloro-1,3-Butadiene	23.43	225	93400	0.555	ppbv	96
79) Naphthalene	22.26	128	108968	0.459	ppbv #	96
80) Naphthalene, 2-methyl-	25.01	142	32453	0.493	ppbv #	90
81) 1,2,4-Trichlorobenzene	21.98	180	70710m	0.457	ppbv	

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

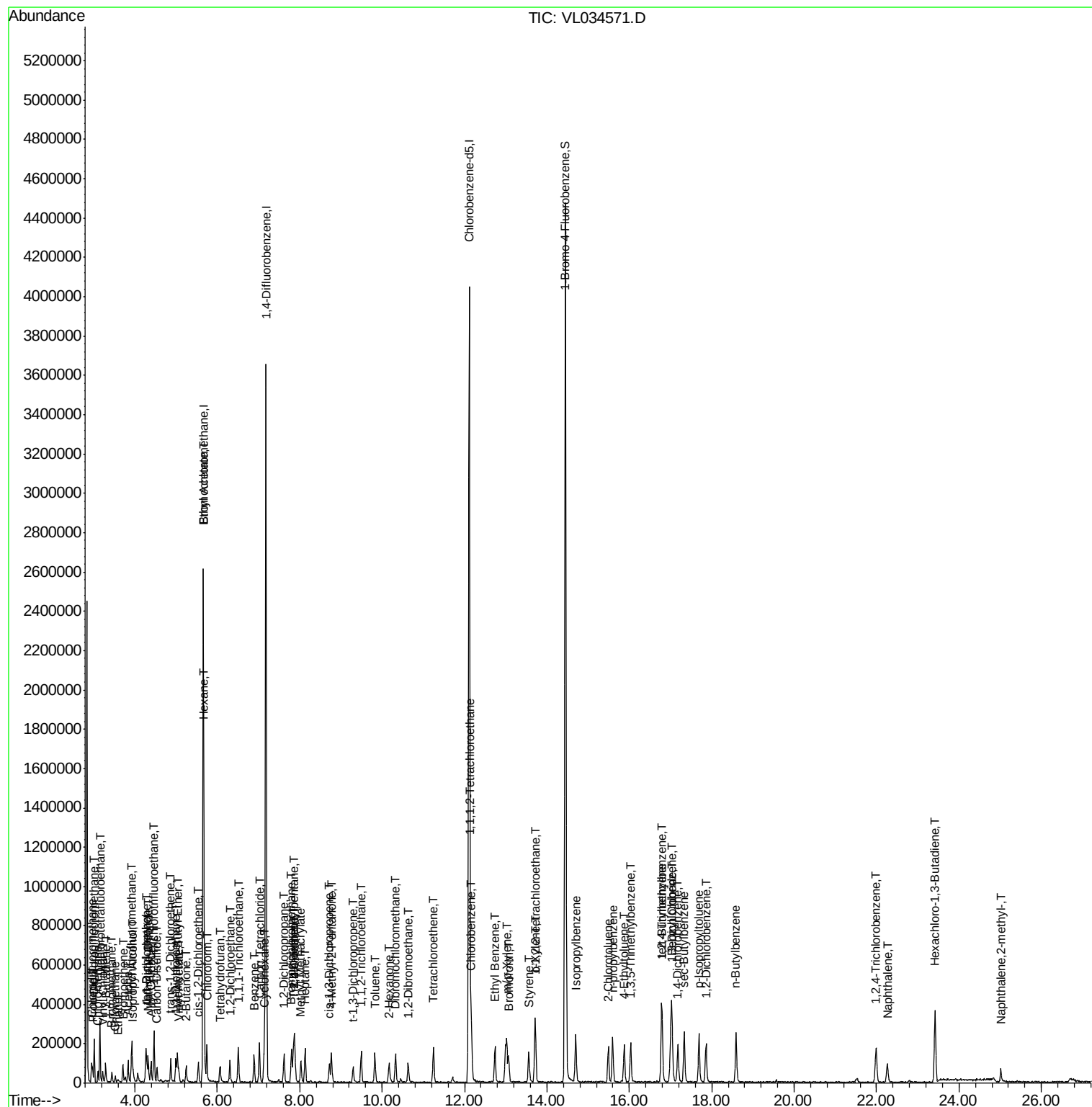
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL013020\
Data File : VL034571.D
Acq On : 30 Jan 2020 14:01
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

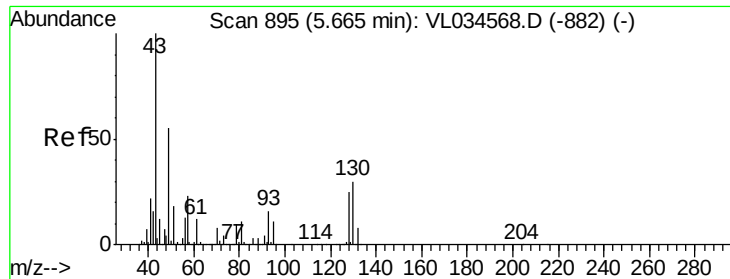
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM

Quant Time: Jan 30 17:18:14 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 14:46:59 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1146723

Ion Ratio Lower Upper

49 100

128 45.7 22.4 67.2

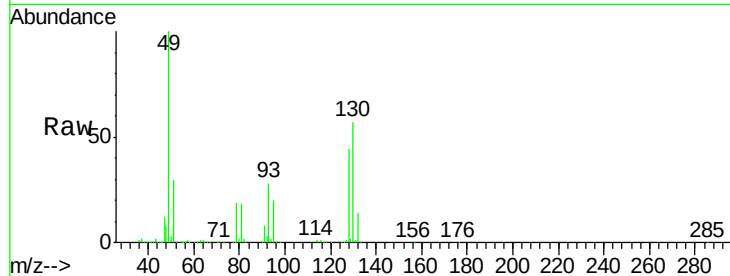
130 57.9 28.3 85.0

Manual Integrations

APPROVED

MMDadoda

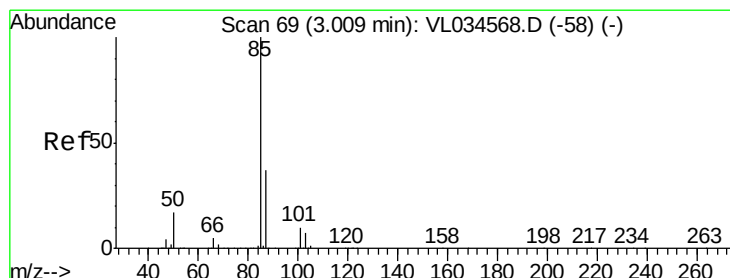
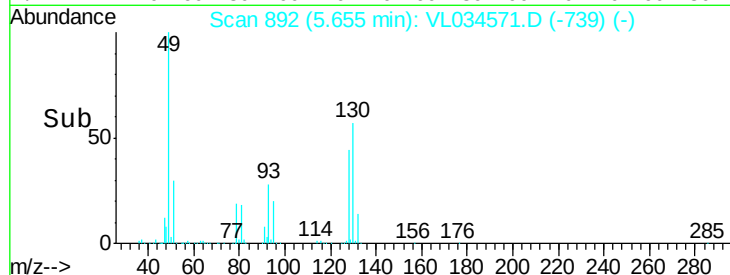
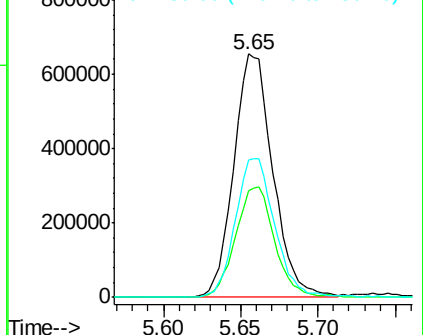
1/31/2020 4:24:00 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.790 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL034571.D

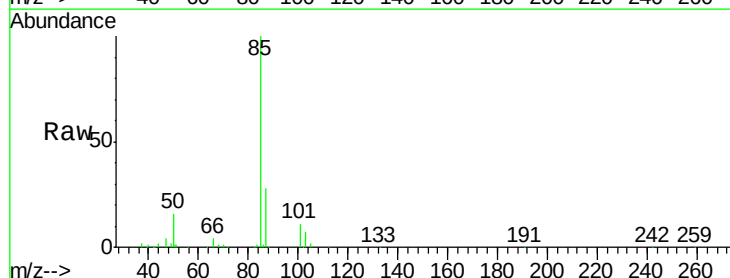
Acq: 30 Jan 2020 14:01

Tgt Ion: 85 Resp: 142844

Ion Ratio Lower Upper

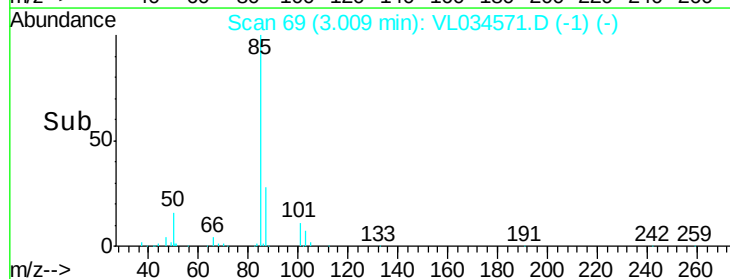
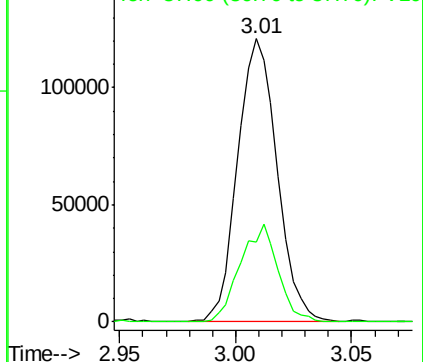
85 100

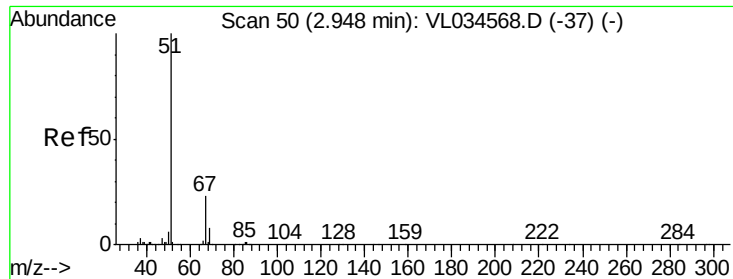
87 28.0 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.562 ppbv

RT: 2.95 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 76818

Ion Ratio Lower Upper

51 100

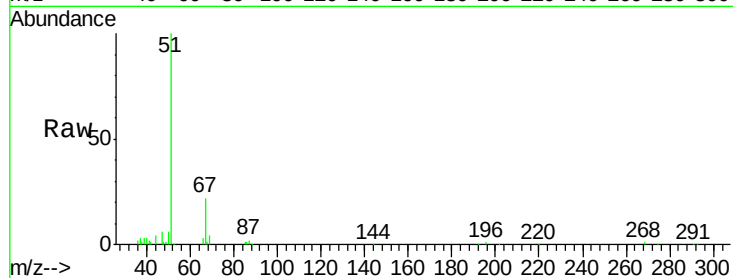
67 23.3 16.8 25.2

Manual Integrations

APPROVED

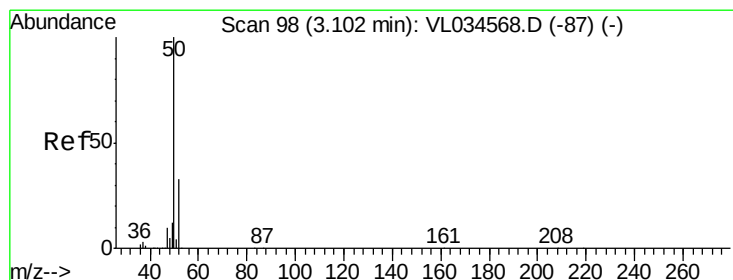
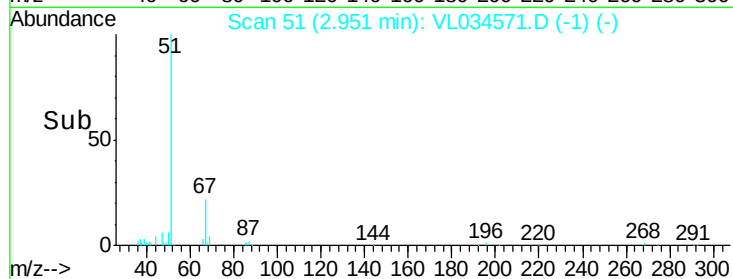
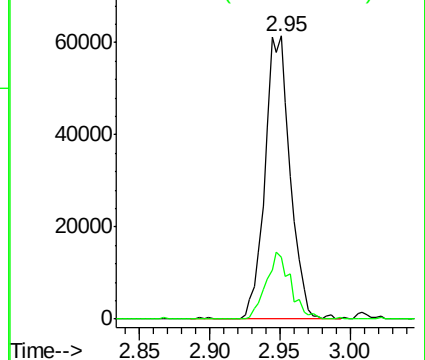
MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.550 ppbv

RT: 3.10 min Scan# 98

Delta R.T. 0.00 min

Lab File: VL034571.D

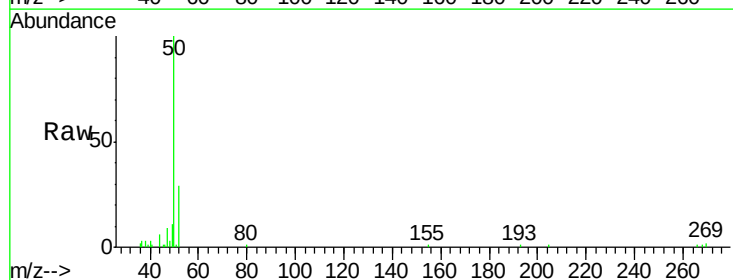
Acq: 30 Jan 2020 14:01

Tgt Ion: 50 Resp: 44675

Ion Ratio Lower Upper

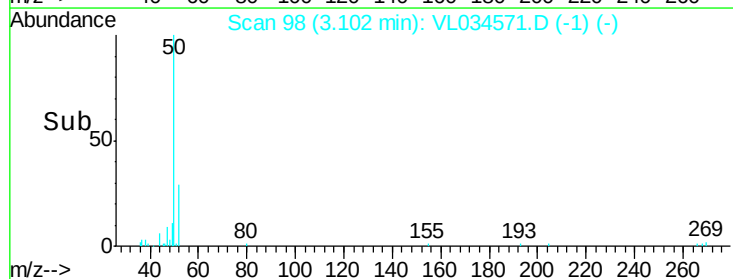
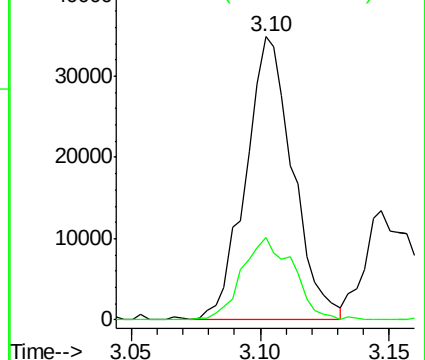
50 100

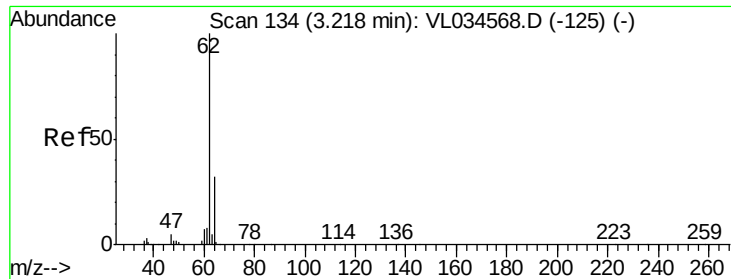
52 28.9 27.6 41.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.505 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 40108

Ion Ratio Lower Upper

62 100

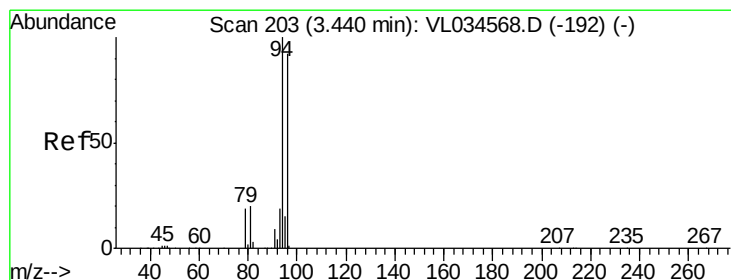
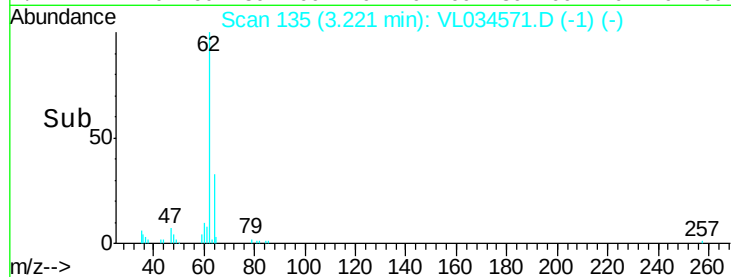
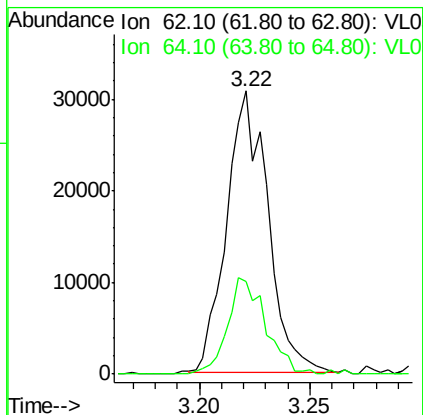
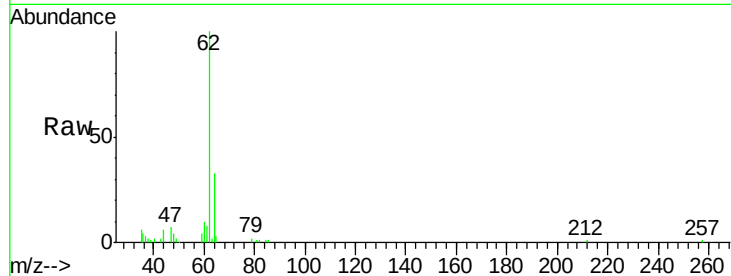
64 32.8 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

1/31/2020 4:24:00 PM



#6

Bromomethane

Concen: 0.594 ppbv

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034571.D

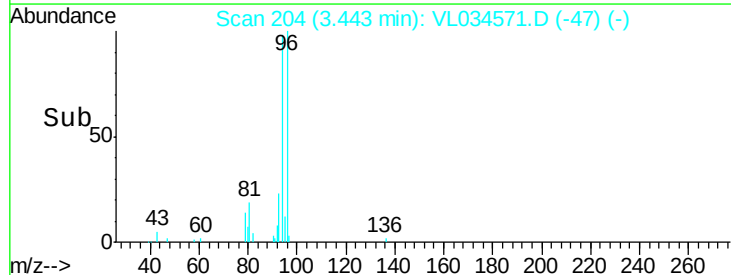
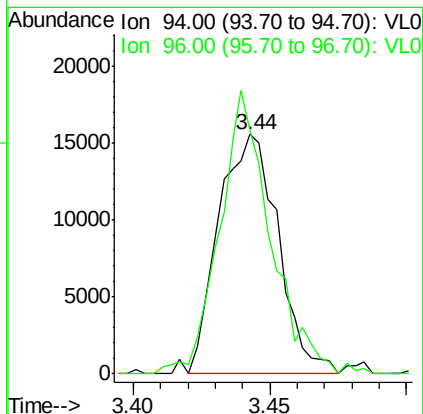
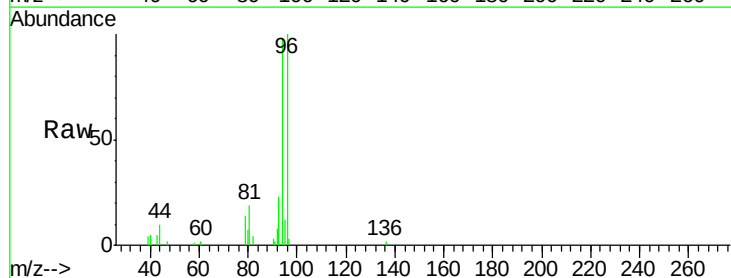
Acq: 30 Jan 2020 14:01

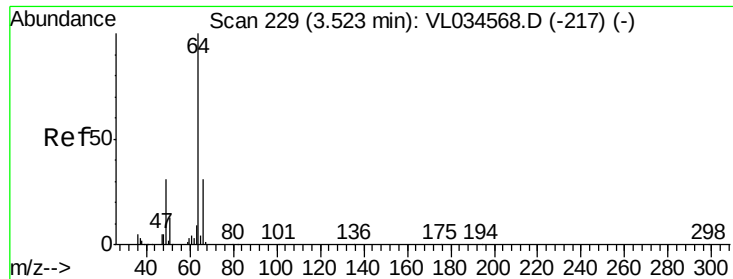
Tgt Ion: 94 Resp: 23496

Ion Ratio Lower Upper

94 100

96 101.6 71.2 106.8





#7

Chloroethane

Concen: 0.595 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16476

Ion Ratio Lower Upper

64 100

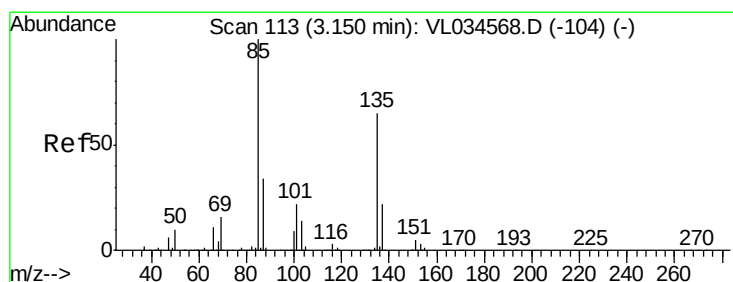
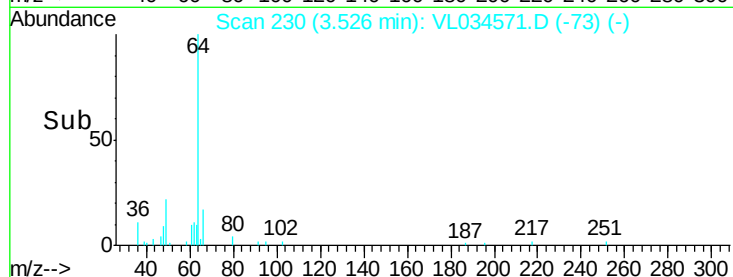
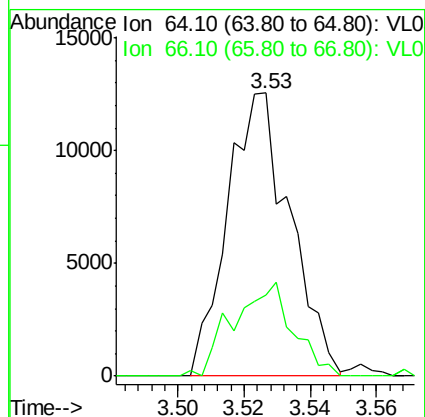
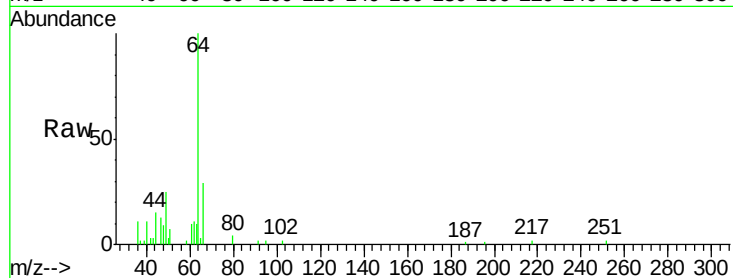
66 28.6 25.0 37.4

Manual Integrations

APPROVED

MMDadoda

1/31/2020 4:24:00 PM



#8

Dichlorotetrafluoroethane

Concen: 0.606 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034571.D

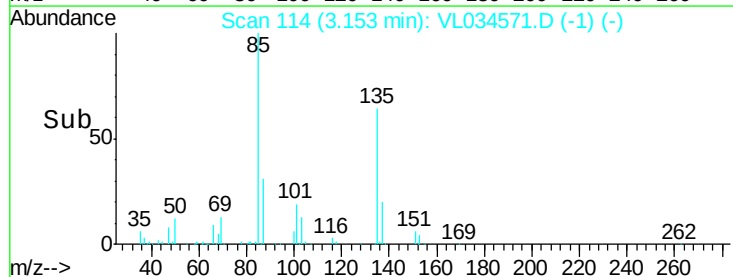
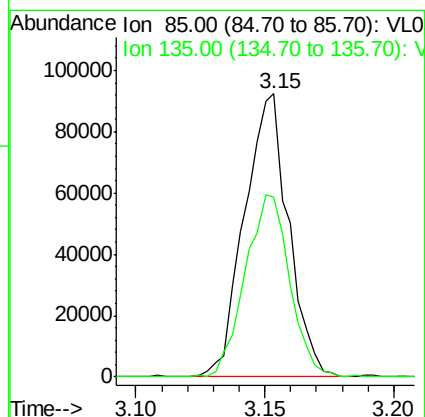
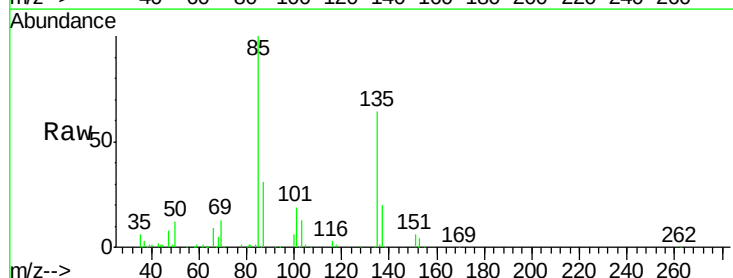
Acq: 30 Jan 2020 14:01

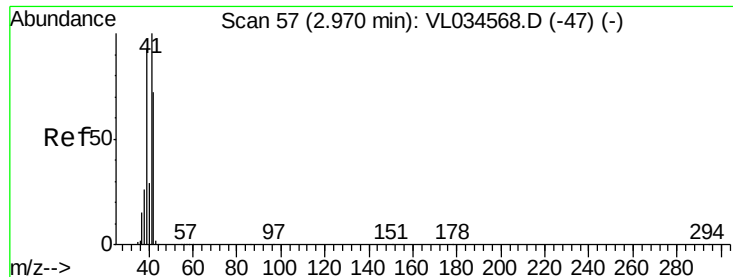
Tgt Ion: 85 Resp: 109981

Ion Ratio Lower Upper

85 100

135 65.0 51.8 77.8





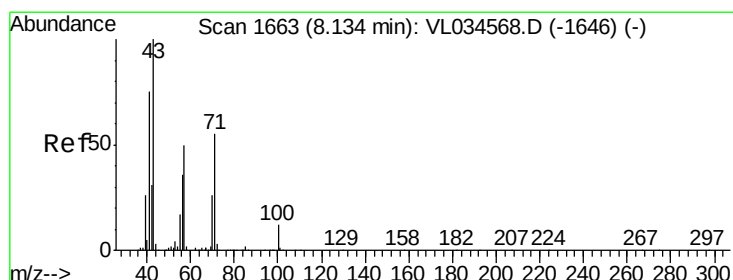
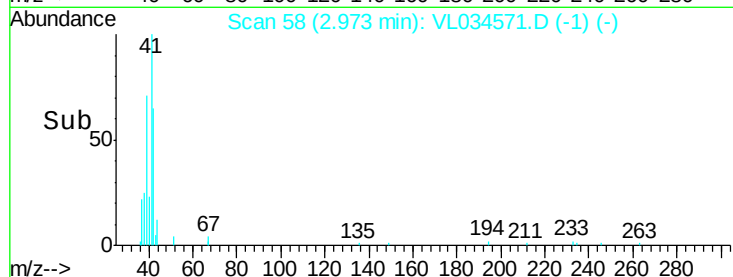
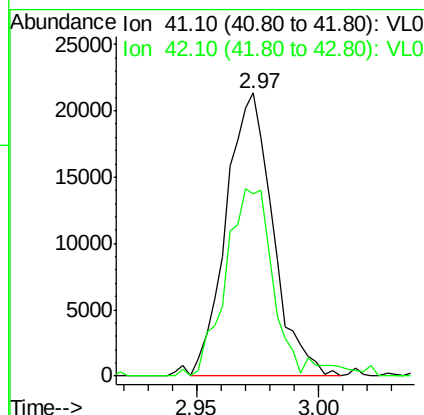
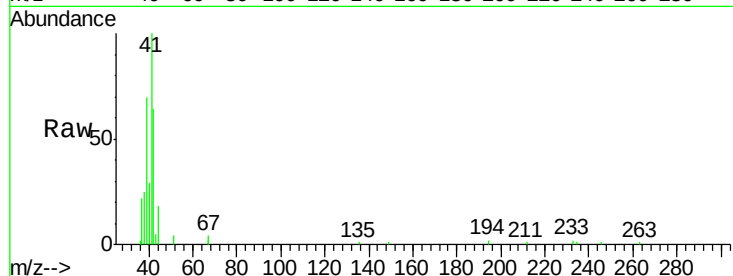
#9
 Propene
 Concen: 0.538 ppbv
 RT: 2.97 min Scan# 58
 Delta R.T. 0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
42	69.8	55.8	83.6

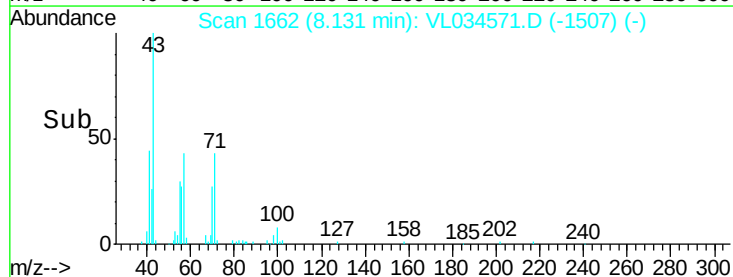
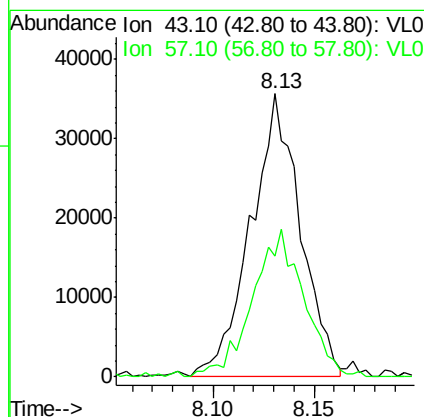
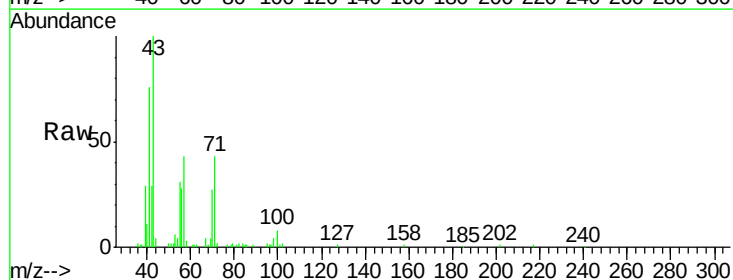
Manual Integrations
 APPROVED

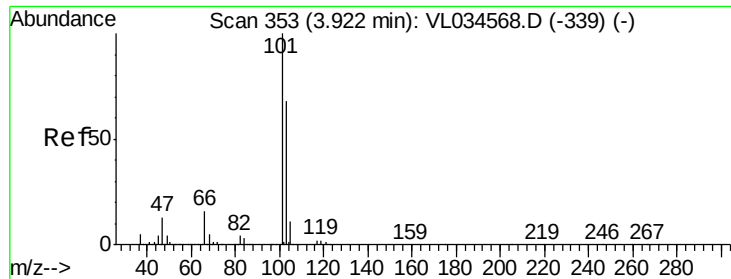
MMDadoda
 1/31/2020 4:24:00 PM



#10
 Heptane
 Concen: 0.450 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
57	54.2	41.0	61.6





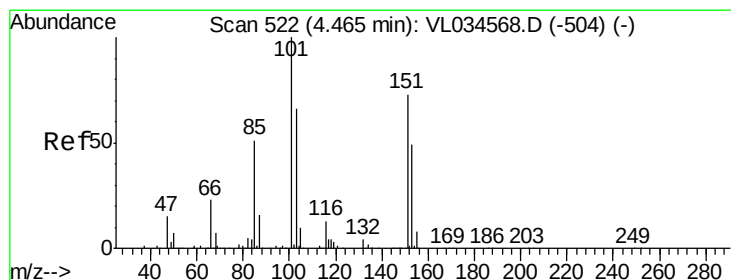
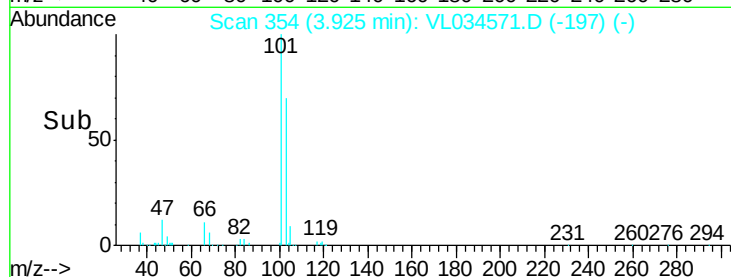
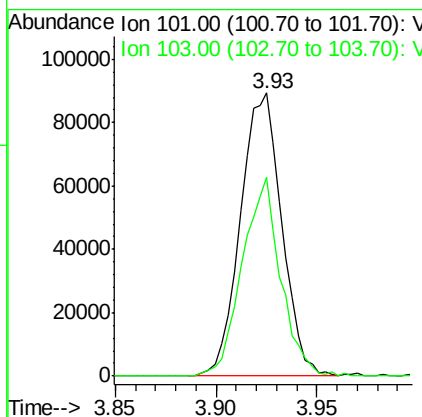
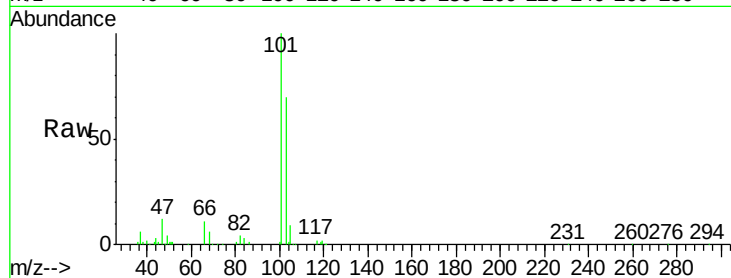
#11
 Trichlorofluoromethane
 Concen: 0.614 ppbv
 RT: 3.93 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		128555		
103	70.2	52.1			78.1

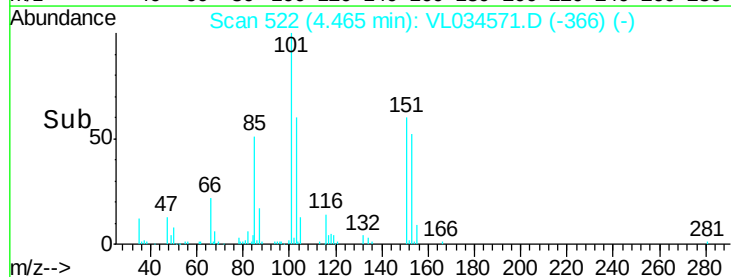
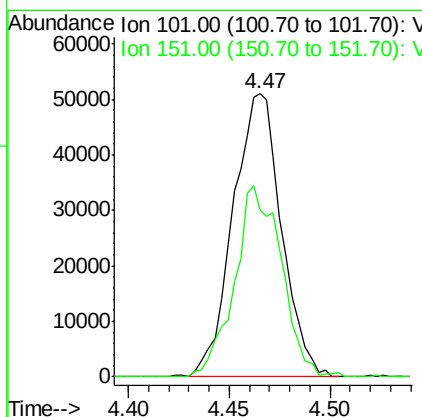
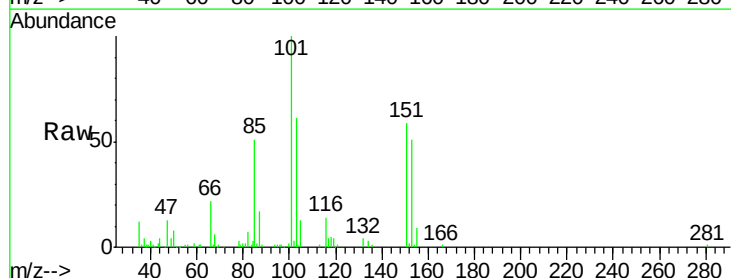
Manual Integrations
 APPROVED

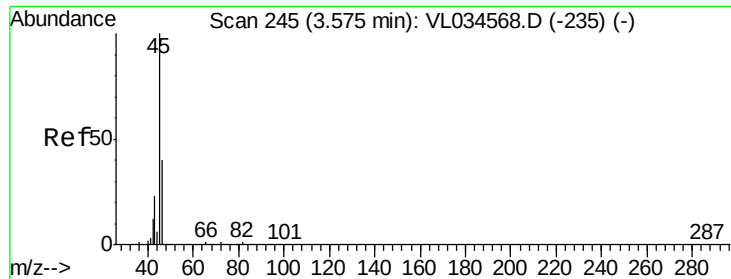
MMDadoda
 1/31/2020 4:24:00 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.645 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		85852		
151	65.3	57.8			86.6





#13

Ethanol

Concen: 0.690 ppbv m

RT: 3.59 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 10091

Ion Ratio Lower Upper

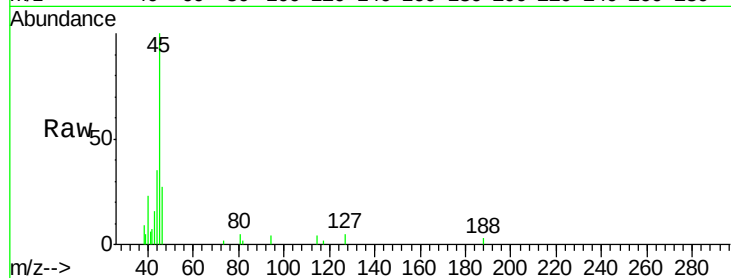
45 100

46 43.4 14.9 59.7

Manual Integrations
APPROVED

MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.59

8000

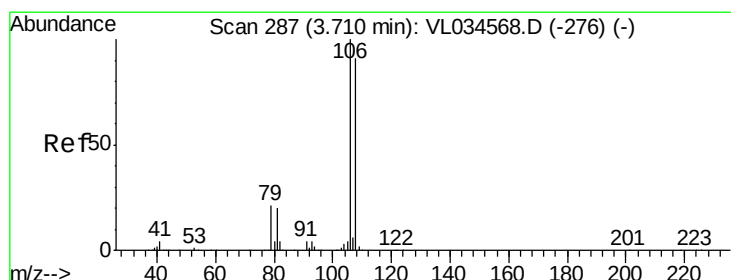
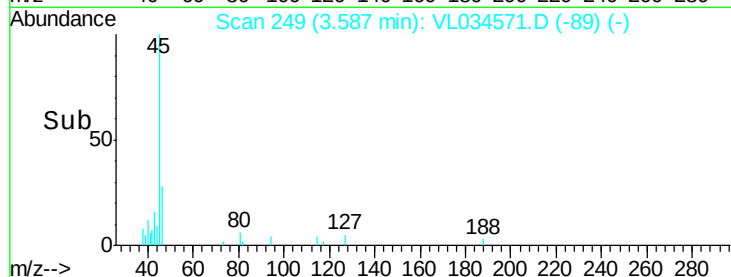
6000

4000

2000

0

Time-->



#14

Bromoethene

Concen: 0.576 ppbv

RT: 3.71 min Scan# 287

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

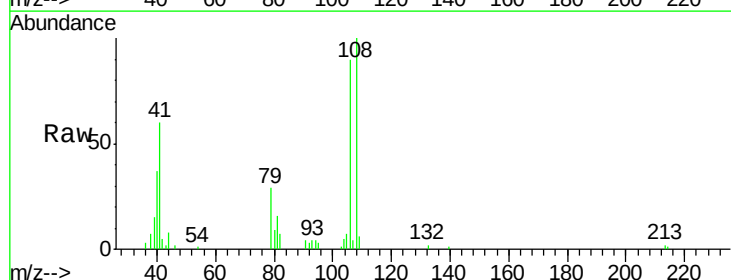
Tgt Ion: 108 Resp: 30985

Ion Ratio Lower Upper

108 100

106 109.6 85.2 127.8

79 26.9 17.4 26.2#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

30000

25000

20000

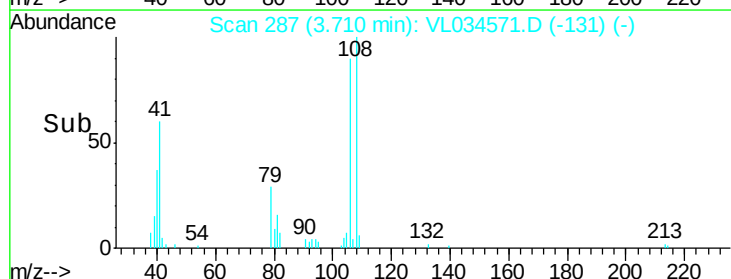
15000

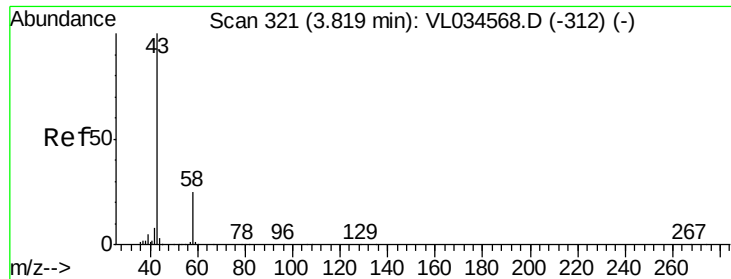
10000

5000

0

Time-->





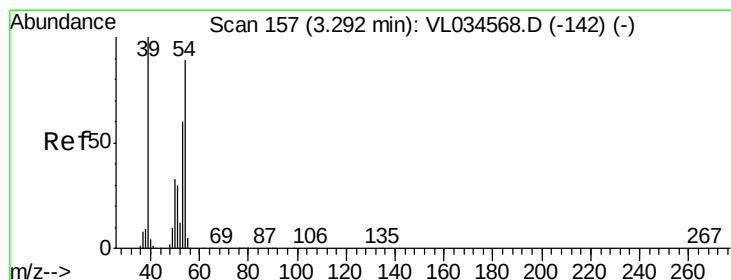
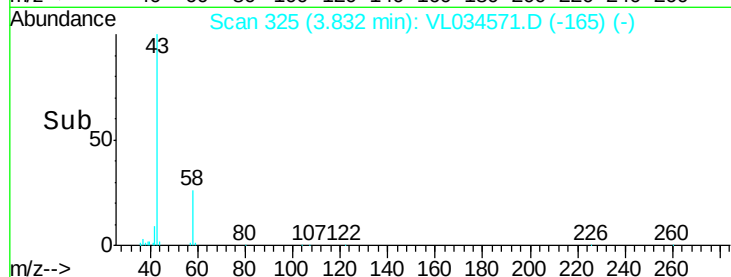
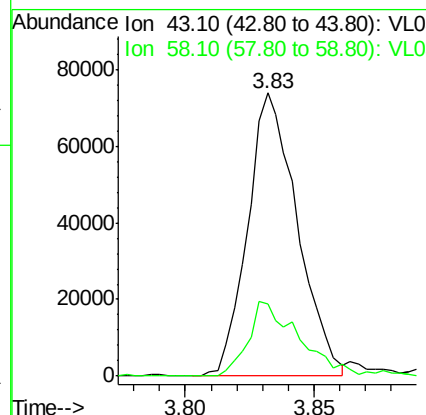
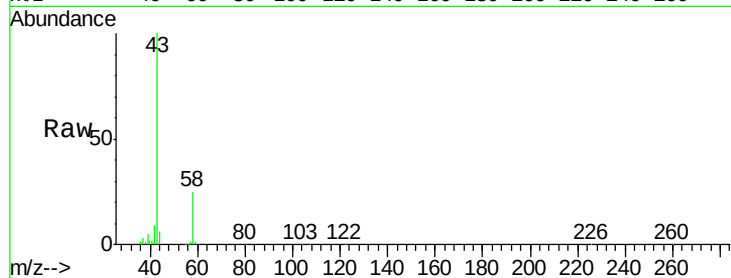
#15
Acetone
Concen: 0.594 ppbv
RT: 3.83 min Scan# 325
Delta R.T. 0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	99478
Ion Ratio	43	100	
Lower	58	27.9	20.4
Upper			30.6

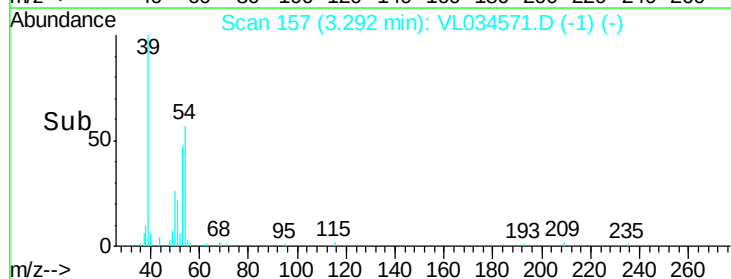
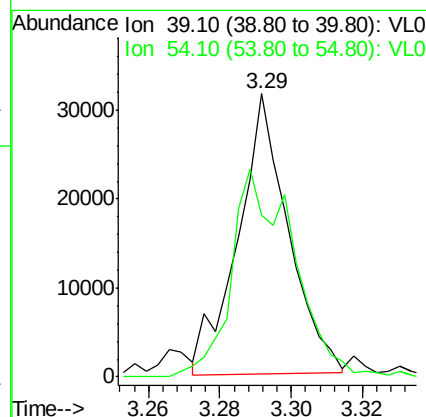
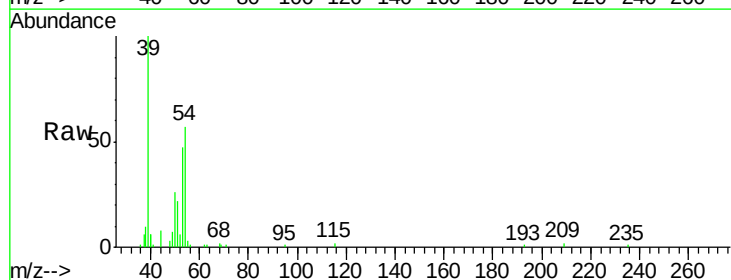
Manual Integrations
APPROVED

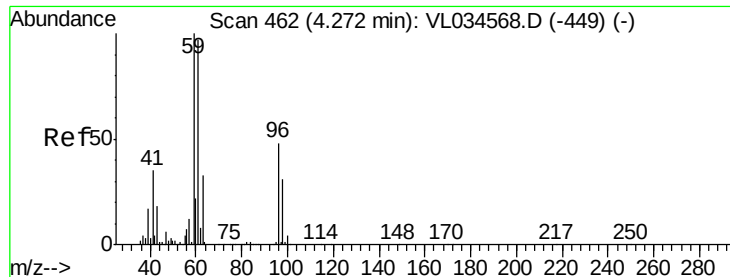
MMDadoda
1/31/2020 4:24:00 PM



#16
1,3-Butadiene
Concen: 0.480 ppbv
RT: 3.29 min Scan# 157
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	39	Resp	30869
Ion Ratio	39	100	
Lower	54	91.3	66.2
Upper			99.2





#17

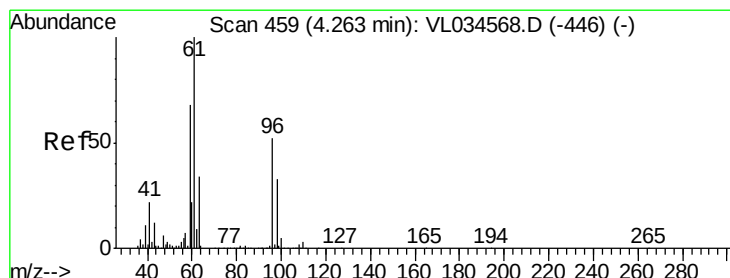
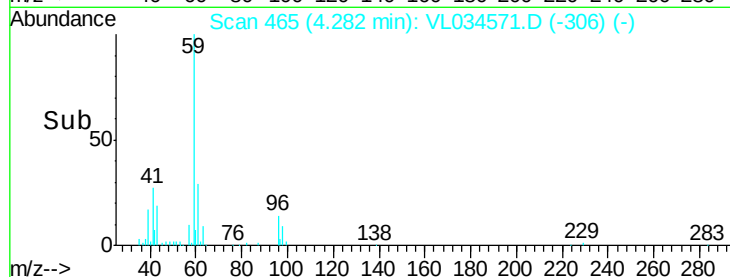
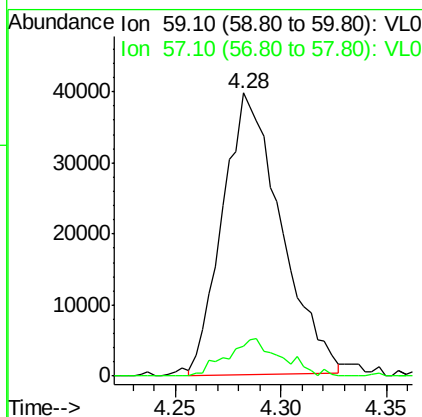
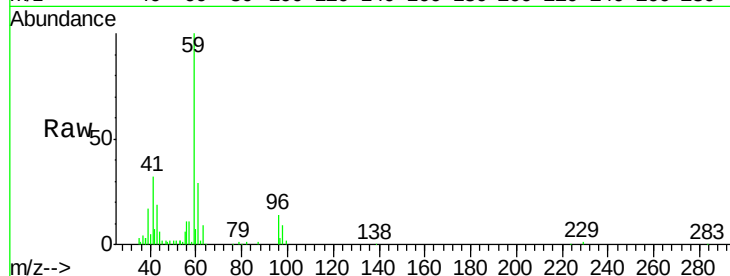
tert-Butyl alcohol
Concen: 0.567 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	75951
Ion Ratio	100	Lower	Upper
57	12.7	8.6	12.8

Manual Integrations
APPROVED

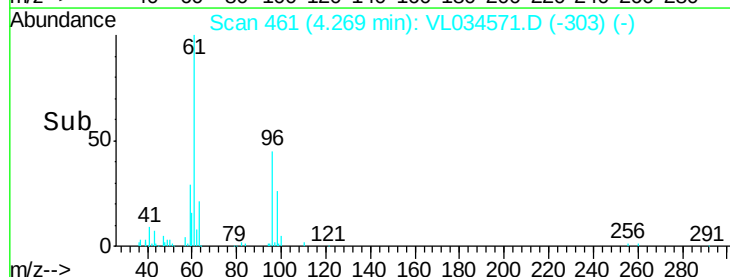
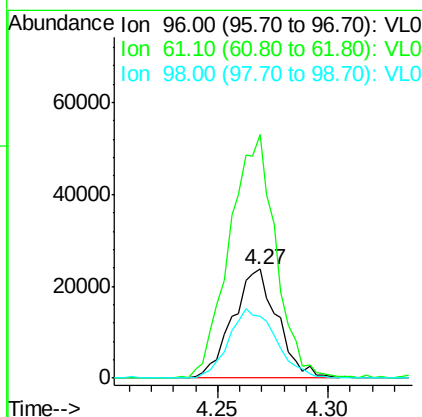
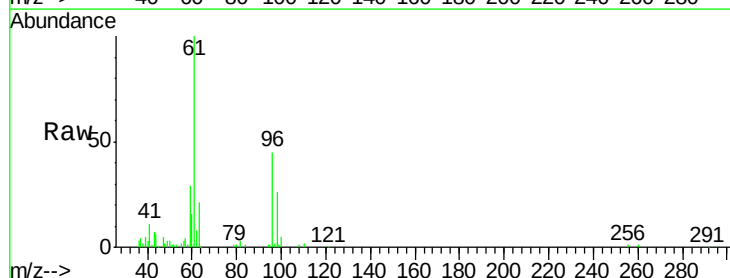
MMDadoda
1/31/2020 4:24:00 PM

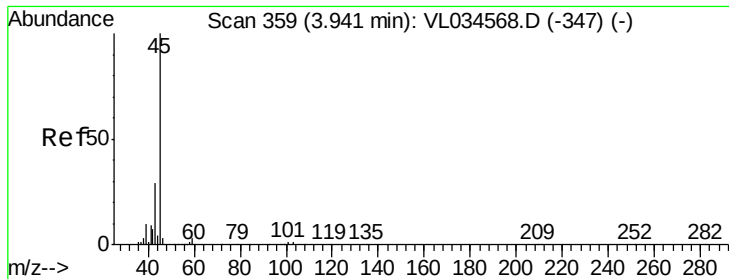


#18

1,1-Dichloroethene
Concen: 0.576 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	96	Resp	33424
Ion Ratio	100	Lower	Upper
61	224.2	165.9	248.9
98	57.2	51.9	77.9





#19

Isopropyl Alcohol

Concen: 0.616 ppbv m

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

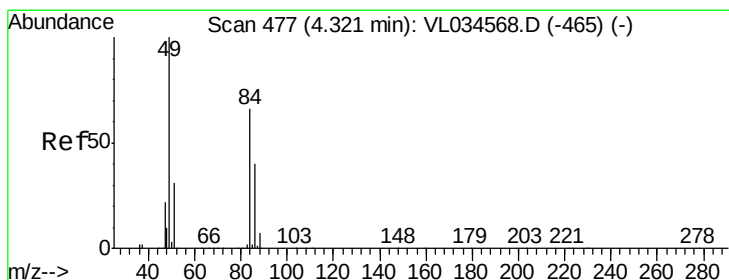
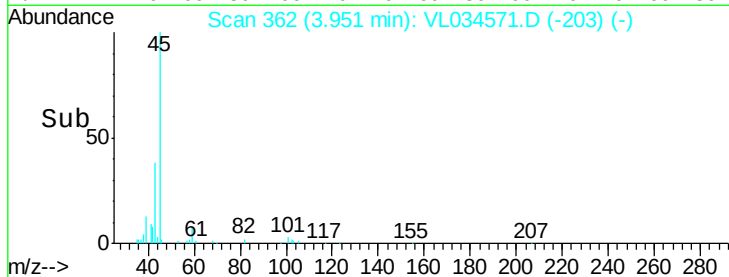
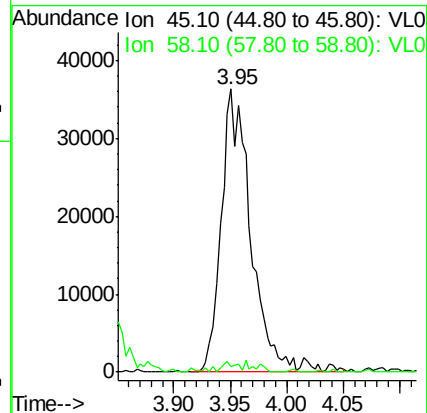
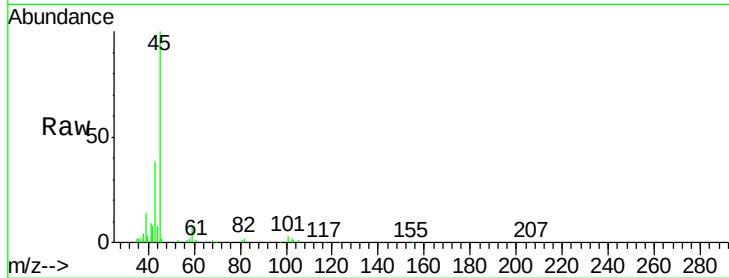
VSTDIC0.5

Tot Ion: 45 Resp: 66775

Ion	Ratio	Lower	Upper
45	100		
58	3.9	1.4	2.0#

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#20

Methylene Chloride

Concen: 0.586 ppbv

RT: 4.32 min Scan# 478

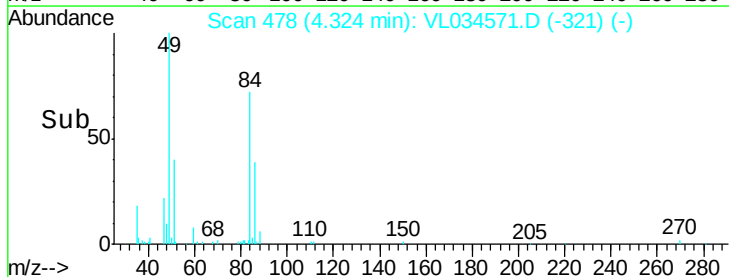
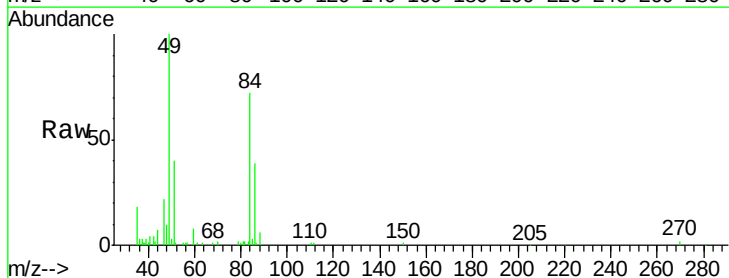
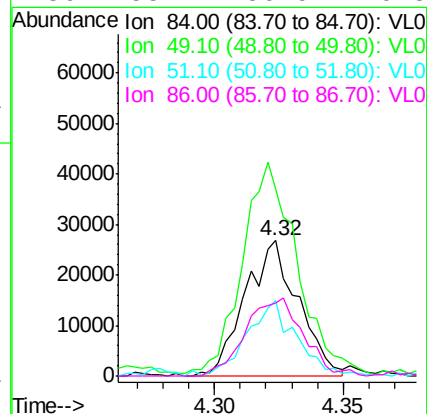
Delta R.T. 0.00 min

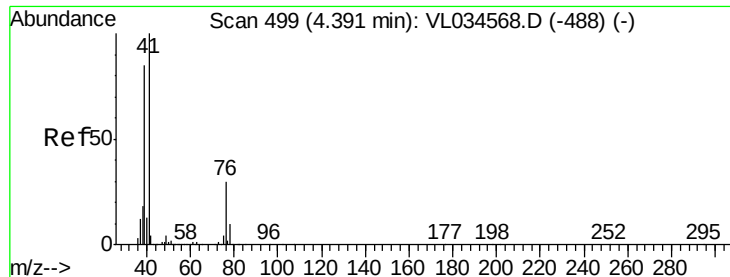
Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion: 84 Resp: 38574

Ion	Ratio	Lower	Upper
84	100		
49	132.7	124.4	186.6
51	53.2	37.0	55.6
86	53.7	50.9	76.3





#21

Allvl Chloride

Concen: 0.563 ppbv m

RT: 4.39 min Scan# 498

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

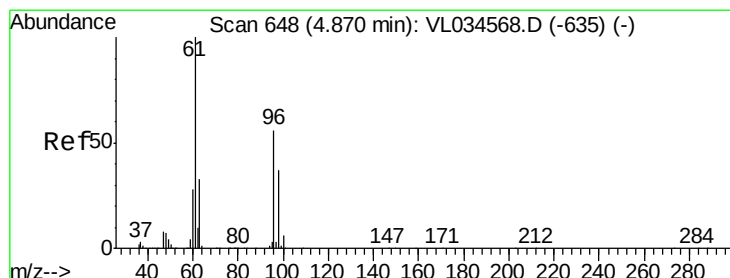
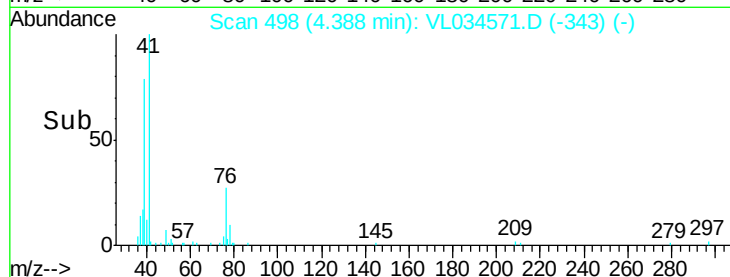
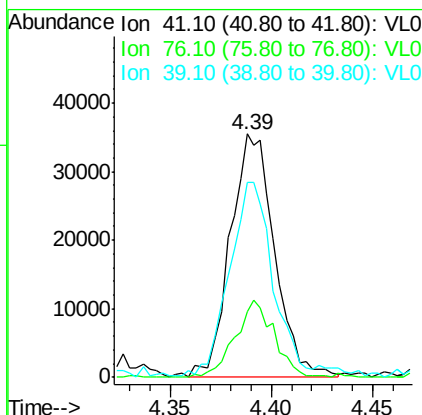
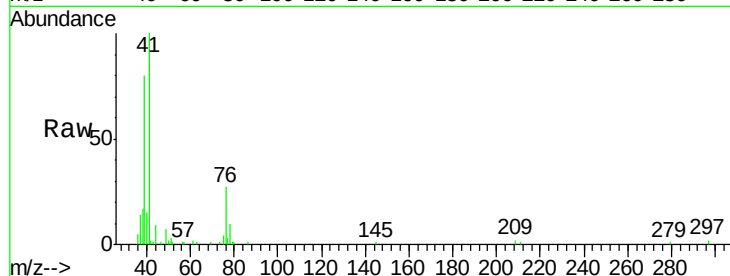
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	54119
Ion	Ratio	Lower	Upper
41	100		
76	28.5	24.2	36.4
39	80.9	65.8	98.6

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#22

trans-1,2-Dichloroethene

Concen: 0.597 ppbv

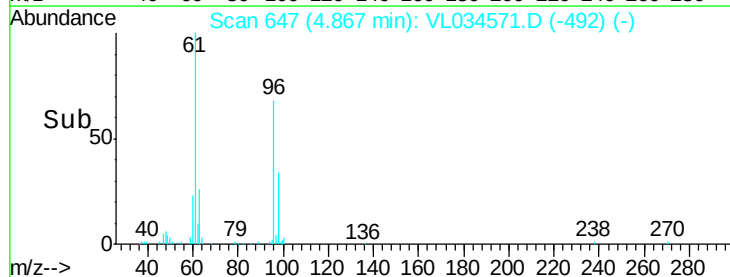
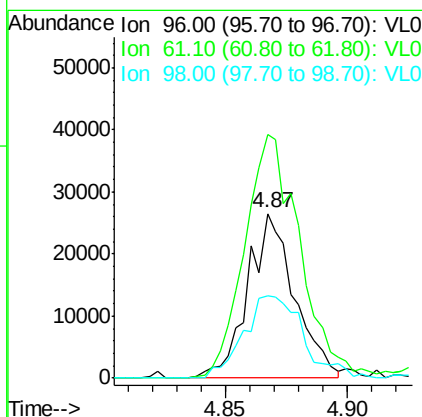
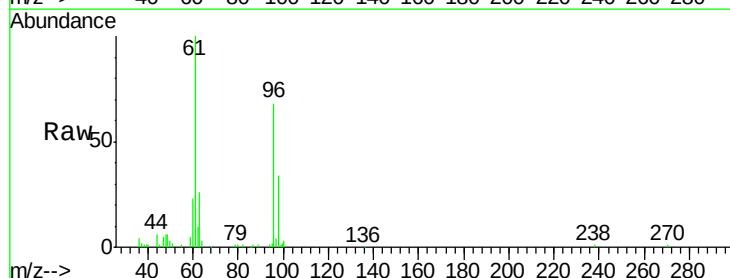
RT: 4.87 min Scan# 647

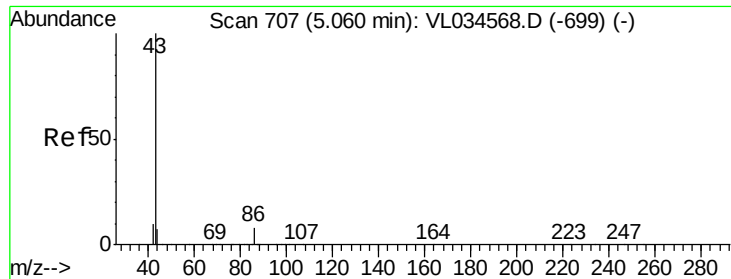
Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:	96	Resp:	35227
Ion	Ratio	Lower	Upper
96	100		
61	147.8	128.4	192.6
98	50.0	50.6	75.8#





#23

Vinyl Acetate

Concen: 0.499 ppbv m

RT: 5.06 min Scan# 707

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 96419

Ion Ratio Lower Upper

43 100

86 4.7 5.4 8.2#

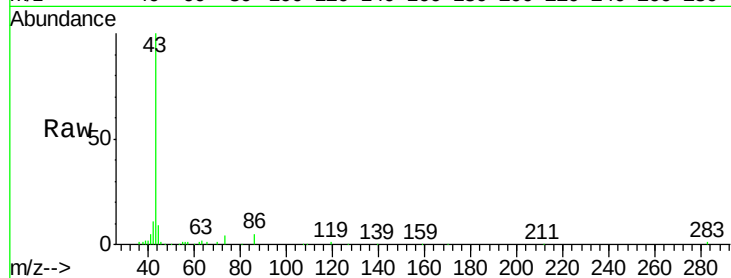
42 10.6 8.9 13.3

44 8.5 5.0 7.4#

Manual Integrations
APPROVED

MMDadoda

1/31/2020 4:24:00 PM

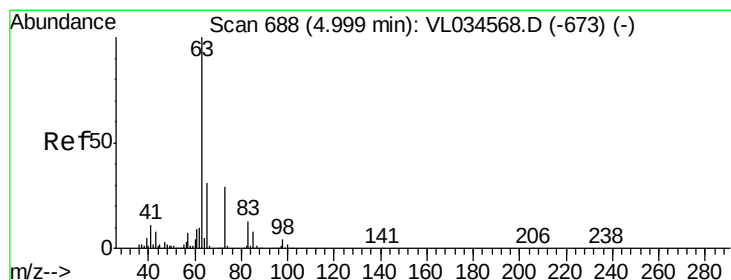
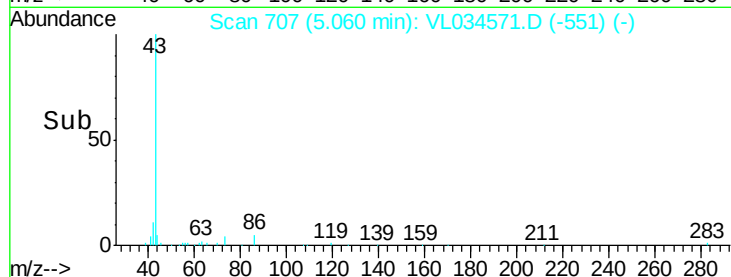
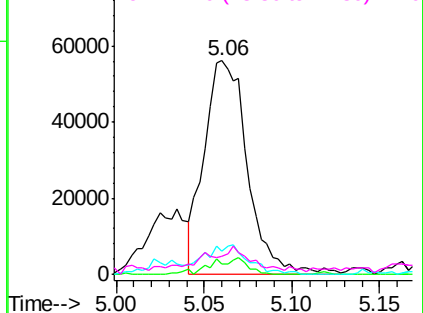


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.549 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

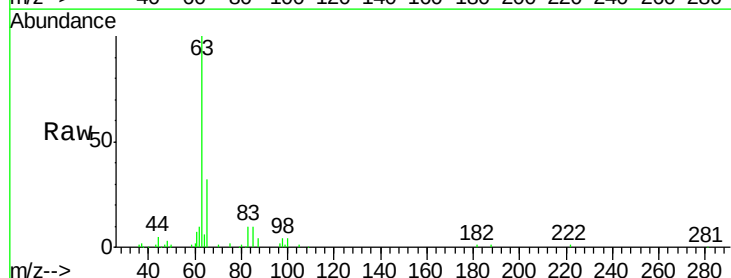
Tgt Ion: 63 Resp: 85263

Ion Ratio Lower Upper

63 100

98 3.5 2.1 6.3

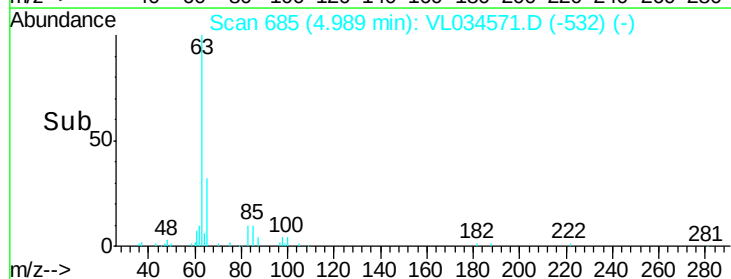
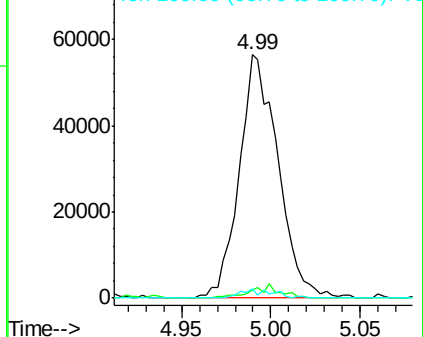
100 3.9 1.1 3.3#

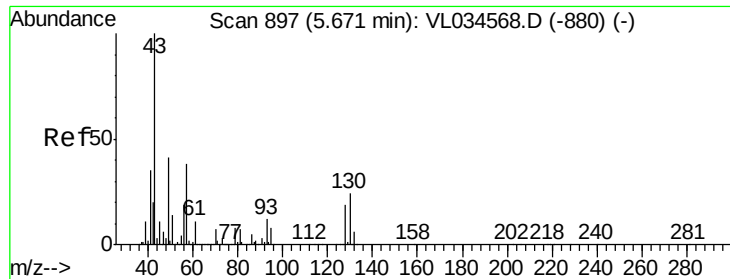


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.551 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

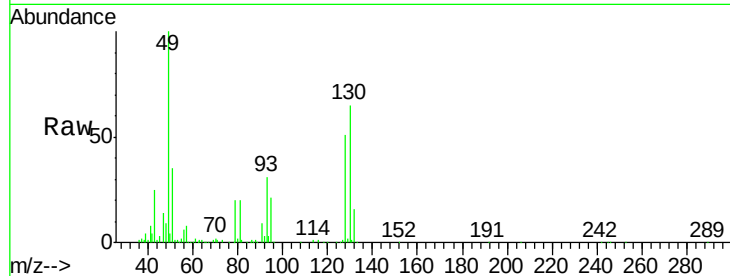
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	144116
Ion	Ratio	Lower	Upper
43	100		
45	10.3	8.3	12.5
61	9.4	7.8	11.6
70	6.5	5.8	8.8

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



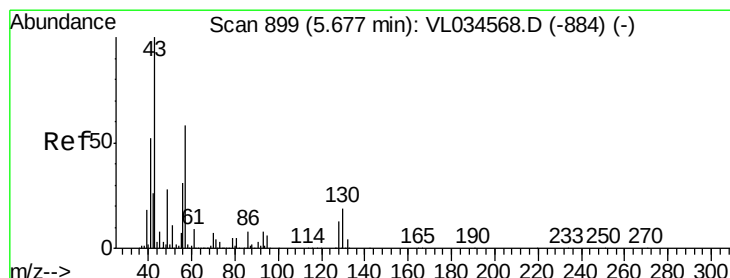
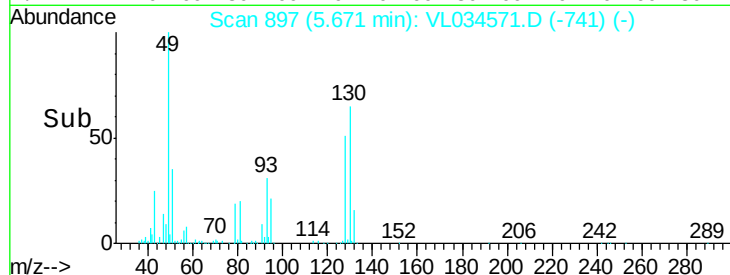
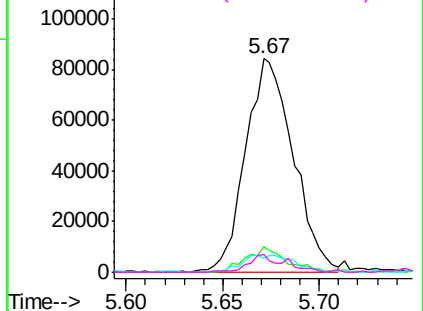
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.532 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:	57	Resp:	58552
Ion	Ratio	Lower	Upper
57	100		
41	100.4	75.3	112.9
43	251.6	189.4	284.2
56	55.9	42.8	64.2

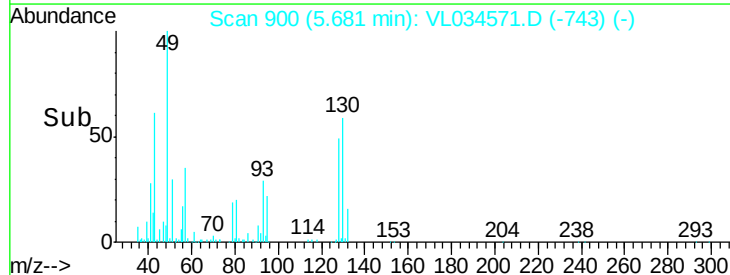
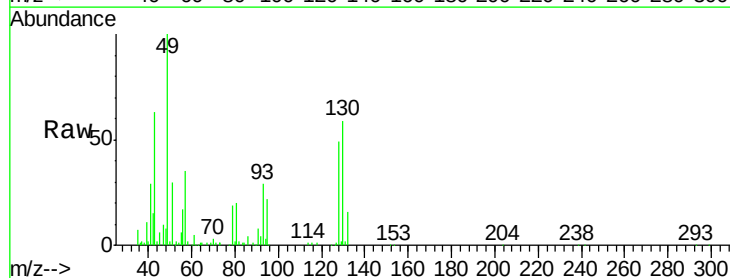
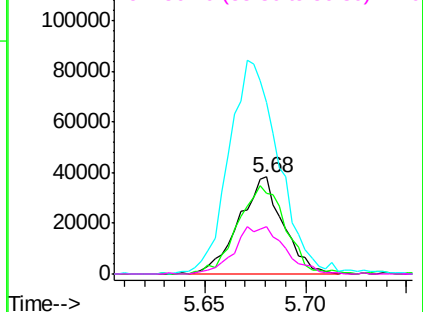
Abundance

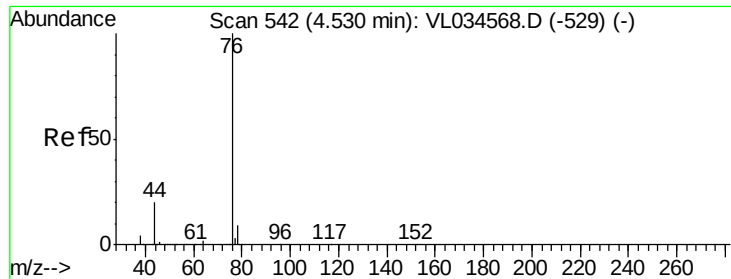
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.516 ppbv

RT: 4.53 min Scan# 542

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

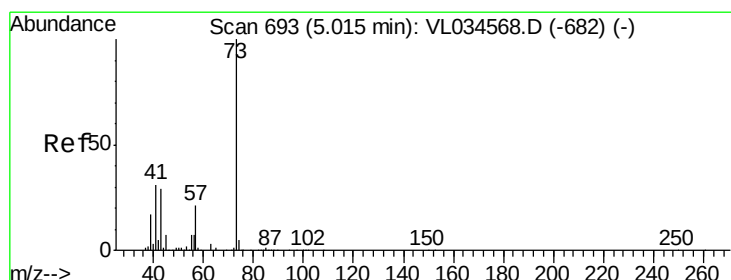
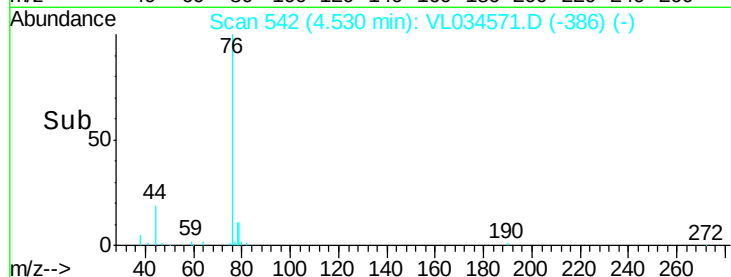
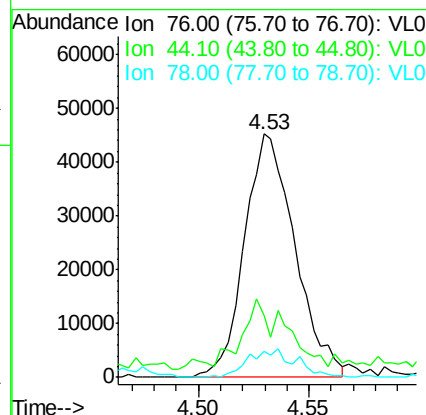
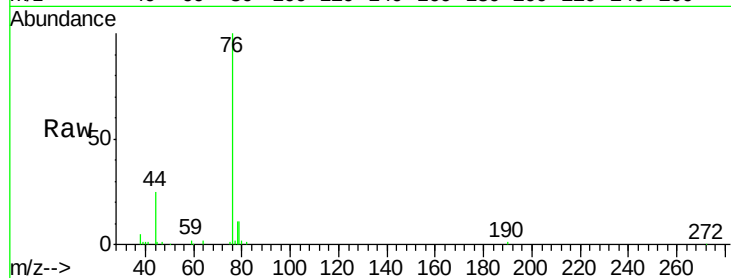
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	27.0	16.6	25.0#
78	11.2	7.4	11.0#

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#28

Methyl tert-Butyl Ether

Concen: 0.489 ppbv

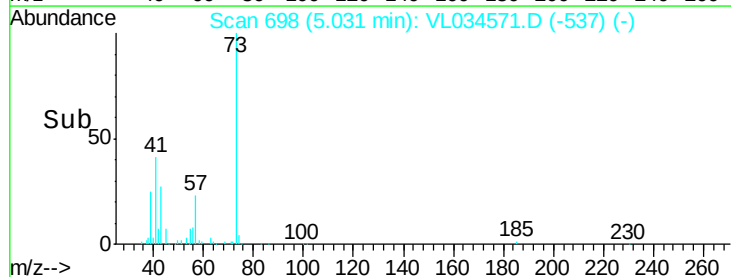
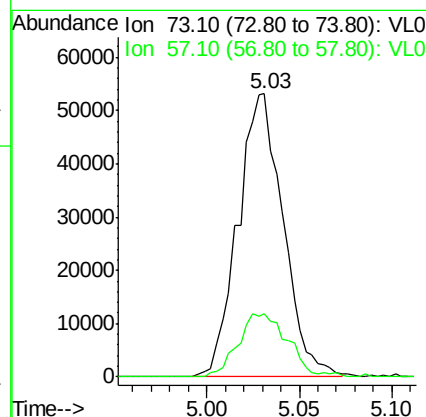
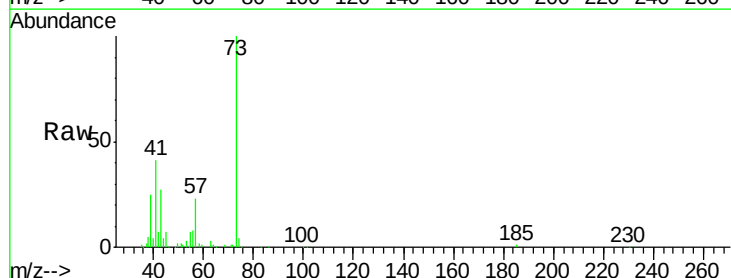
RT: 5.03 min Scan# 698

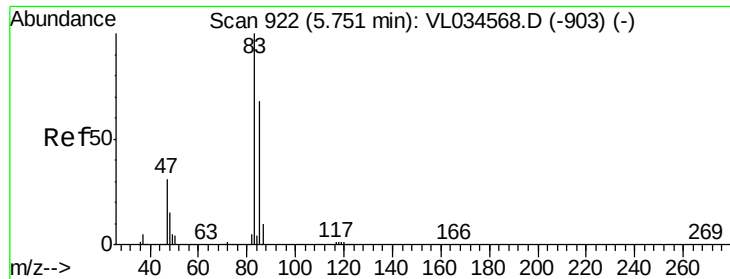
Delta R.T. 0.02 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
73	100		
57	24.7	18.2	27.2





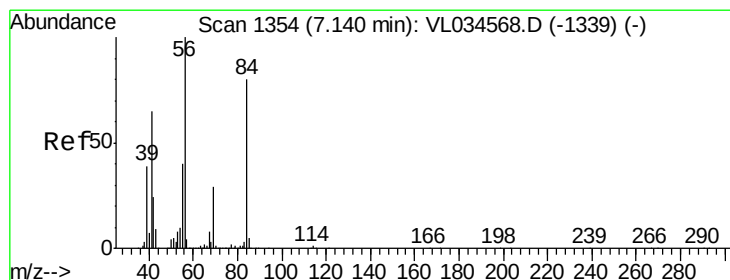
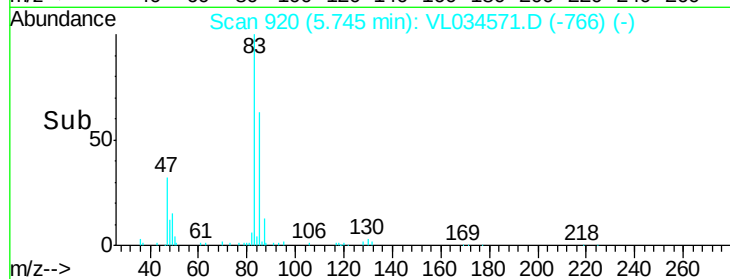
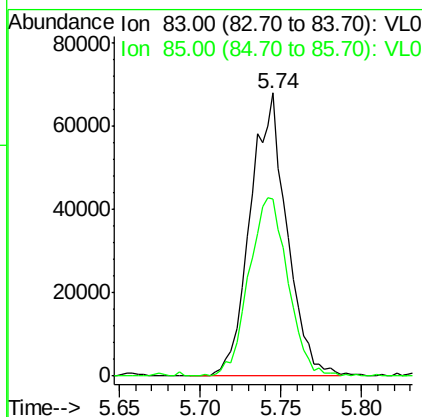
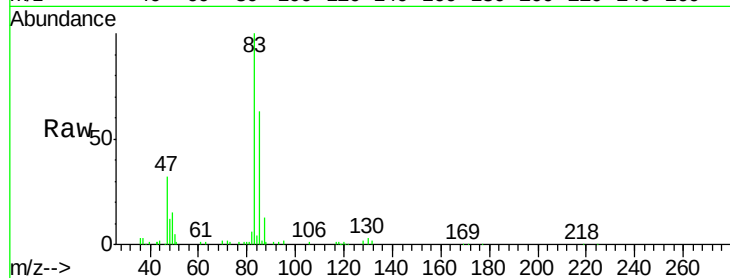
#29
Chloroform
Concen: 0.566 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	107825
Ion Ratio	100	Lower	Upper
83	100		
85	62.8	51.0	76.6

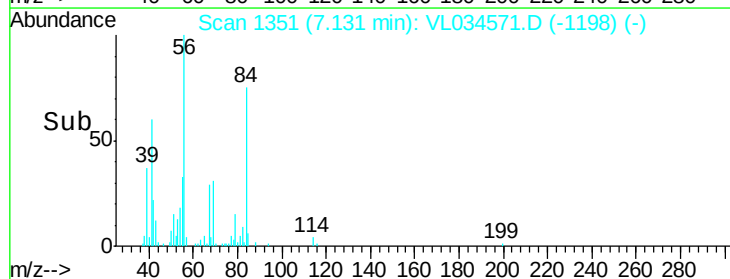
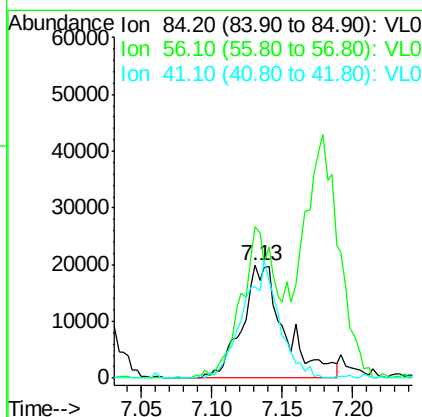
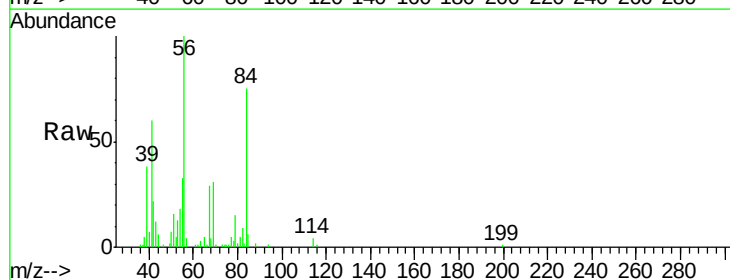
Manual Integrations
APPROVED

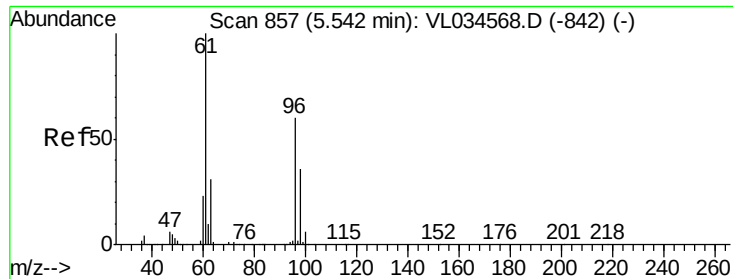
MMDadoda
1/31/2020 4:24:00 PM



#30
Cyclohexane
Concen: 0.511 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	84	Resp	41863
Ion Ratio	100	Lower	Upper
84	100		
56	104.8	112.7	169.1#
41	0.0	73.0	109.4#





#31

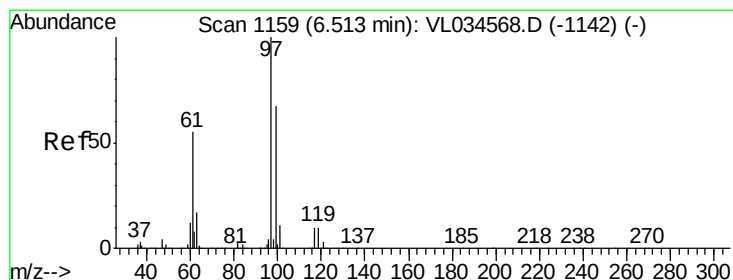
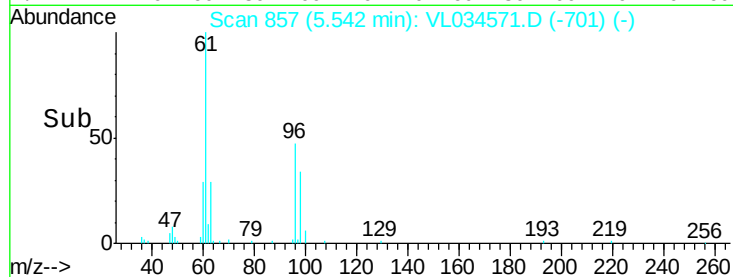
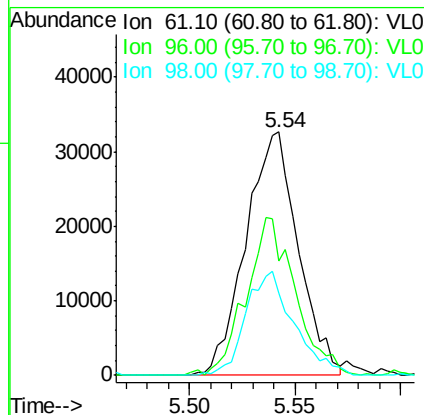
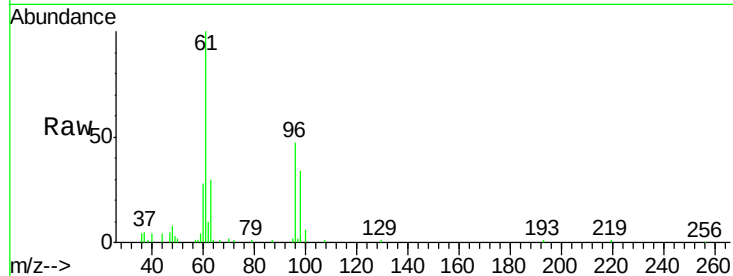
cis-1,2-Dichloroethene
Concen: 0.503 ppbv
RT: 5.54 min Scan# 857
Delta R.T. 0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	45.6	47.1	70.7#
98	34.1	31.0	46.6

Manual Integrations
APPROVED

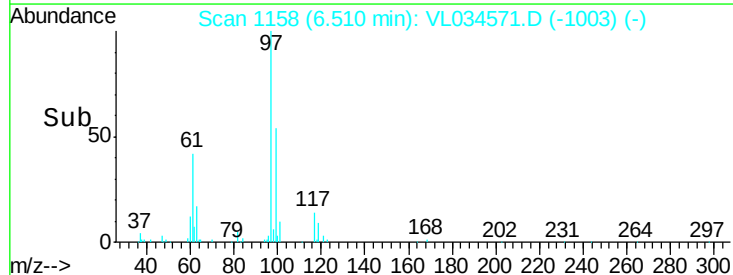
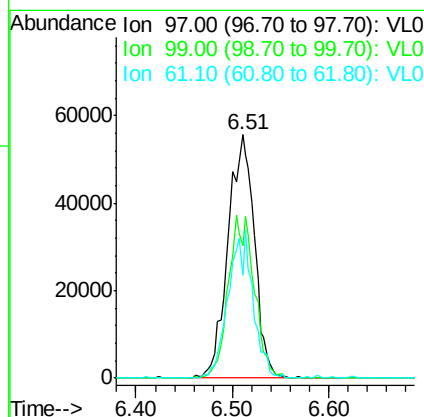
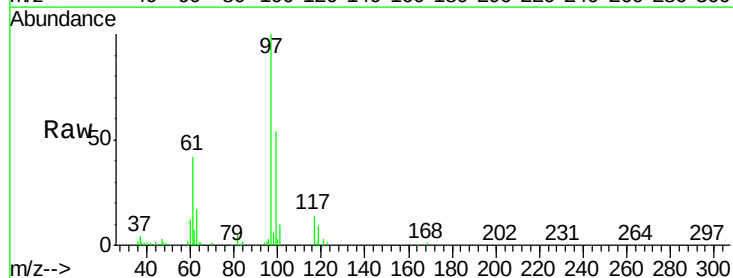
MMDadoda
1/31/2020 4:24:00 PM

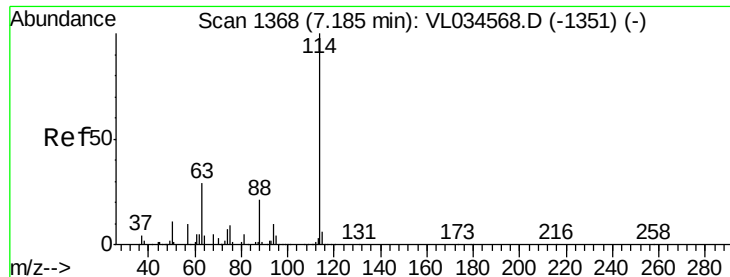


#32

1,1,1-Trichloroethane
Concen: 0.535 ppbv m
RT: 6.51 min Scan# 1158
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	56.2	42.9	64.3





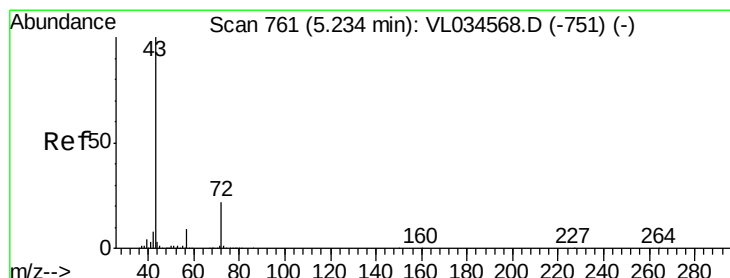
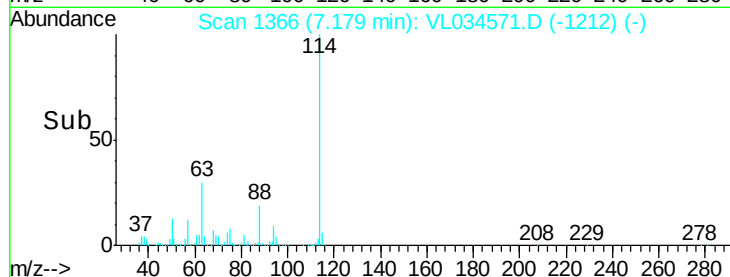
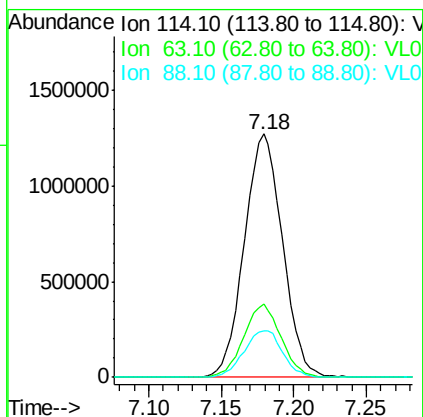
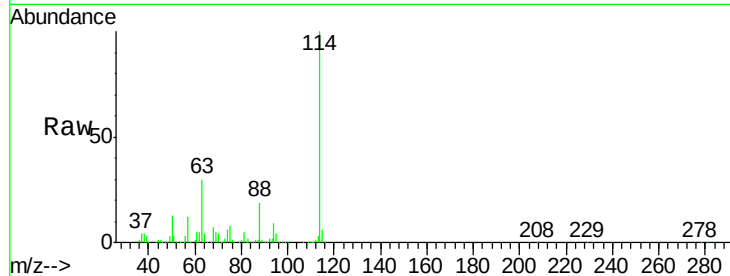
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.5	24.1	36.1
88	19.5	15.7	23.5

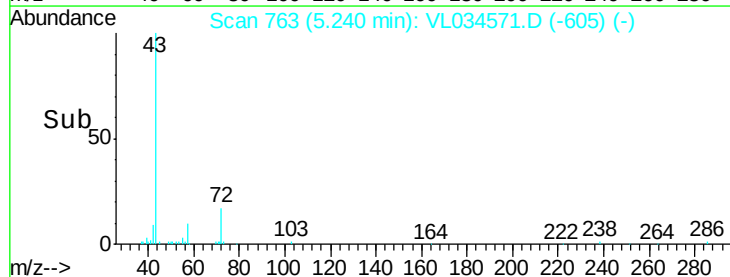
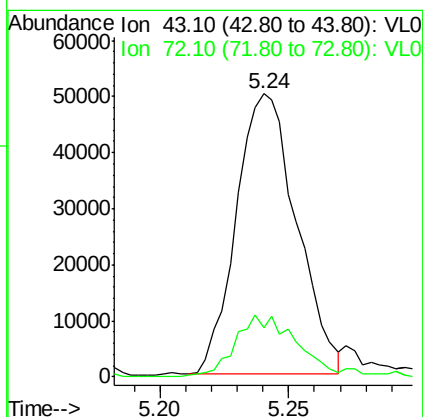
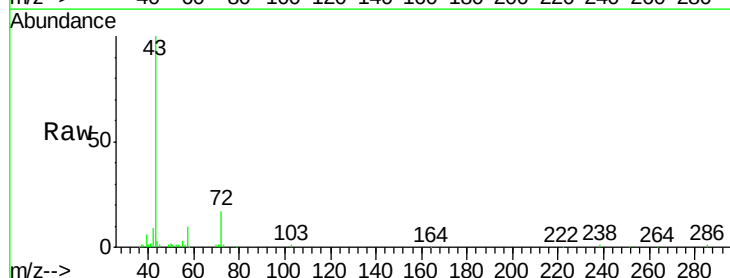
Manual Integrations
 APPROVED

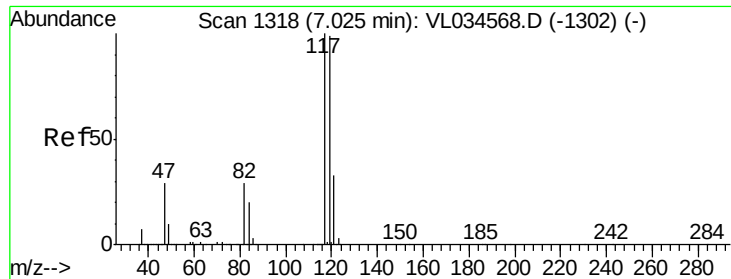
MMDadoda
 1/31/2020 4:24:00 PM



#34
 2-Butanone
 Concen: 0.490 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.0	25.4





#35

Carbon Tetrachloride

Concen: 0.523 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

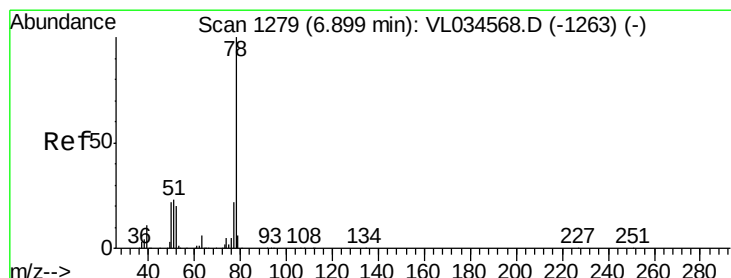
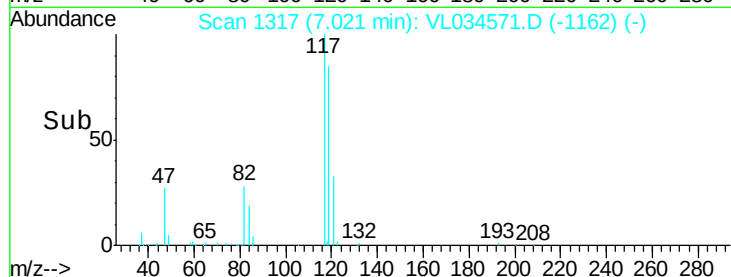
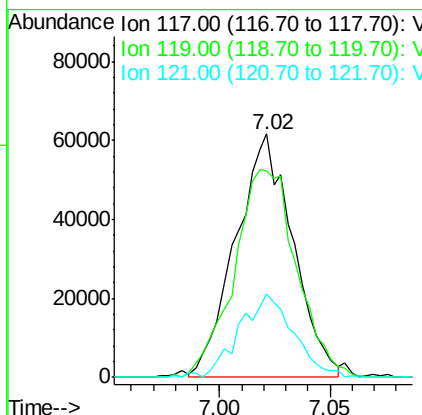
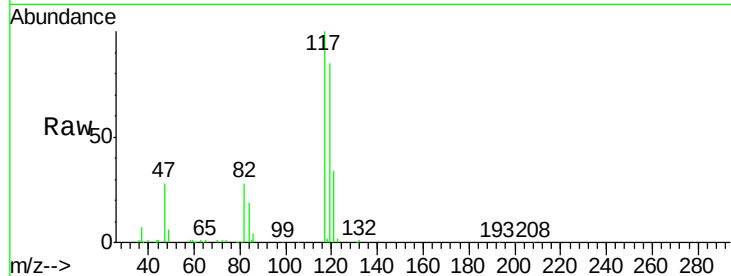
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	110637
Ion Ratio	Lower	Upper	
117	100		
119	84.1	78.7	118.1
121	32.7	25.9	38.9

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#36

Benzene

Concen: 0.497 ppbv

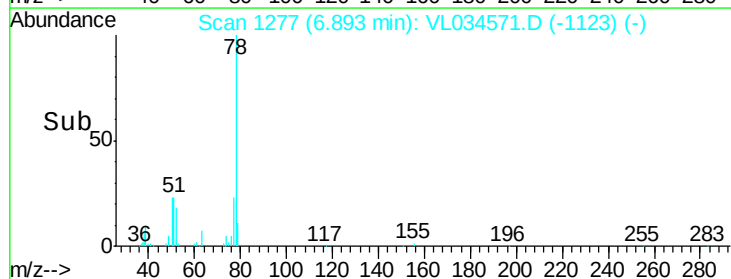
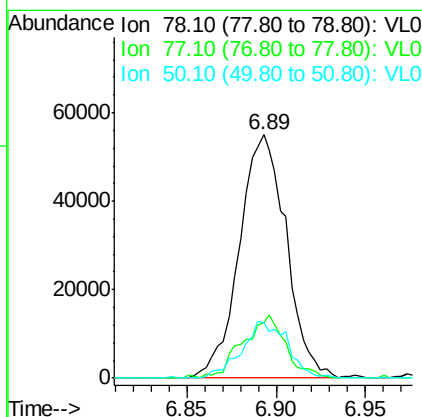
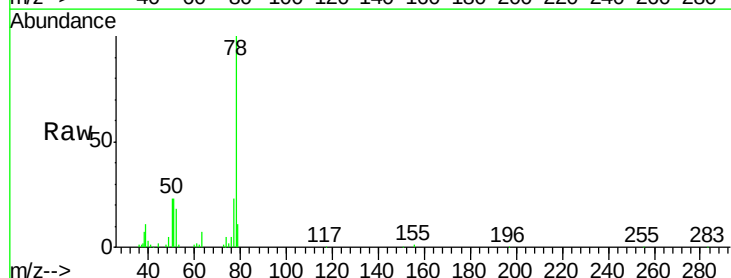
RT: 6.89 min Scan# 1277

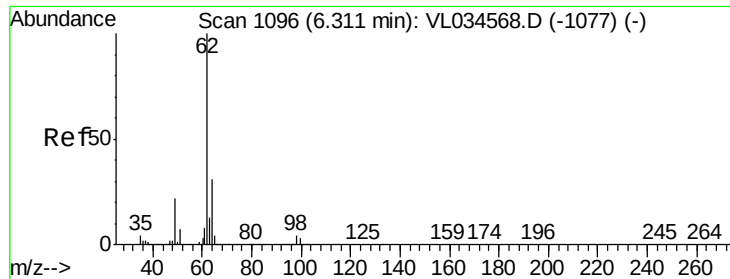
Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:	78	Resp:	101017
Ion Ratio	Lower	Upper	
78	100		
77	23.0	18.6	28.0
50	22.8	18.8	28.2





#37

1,2-Dichloroethane

Concen: 0.563 ppbv m

RT: 6.30 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 93047

Ion Ratio Lower Upper

62 100

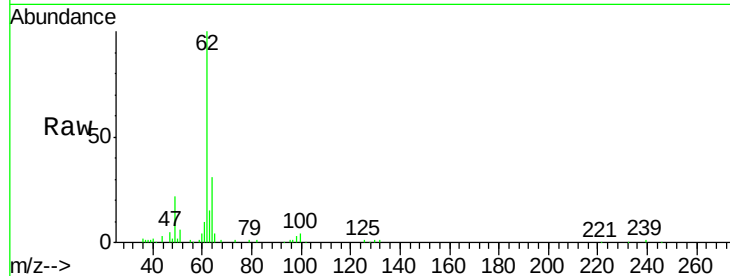
98 4.4 3.8 5.6

Manual Integrations

APPROVED

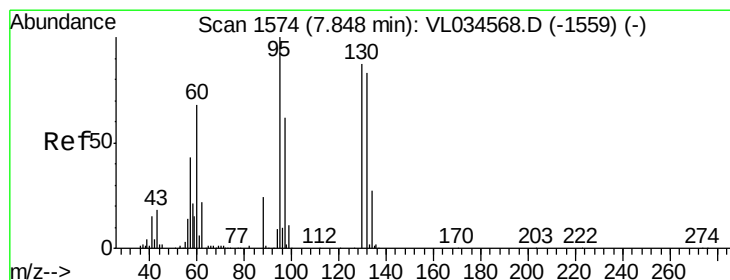
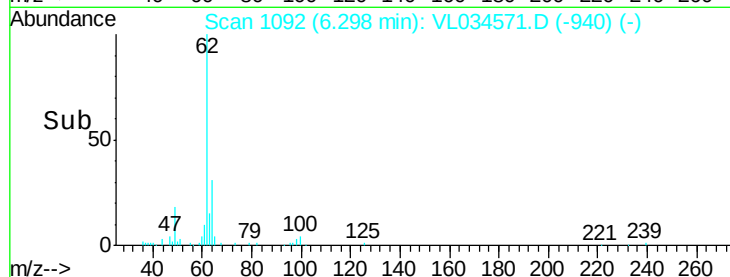
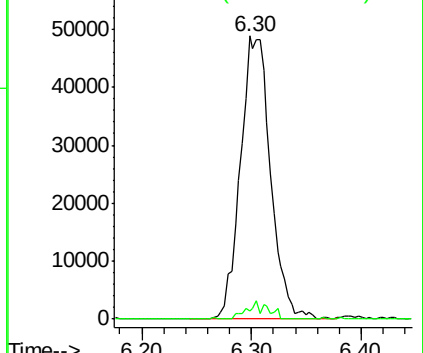
MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.518 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion: 130 Resp: 42580

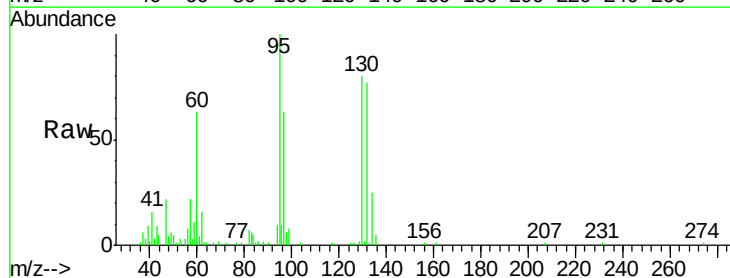
Ion Ratio Lower Upper

130 100

95 124.8 94.2 141.2

132 95.7 76.1 114.1

97 87.1 60.2 90.2

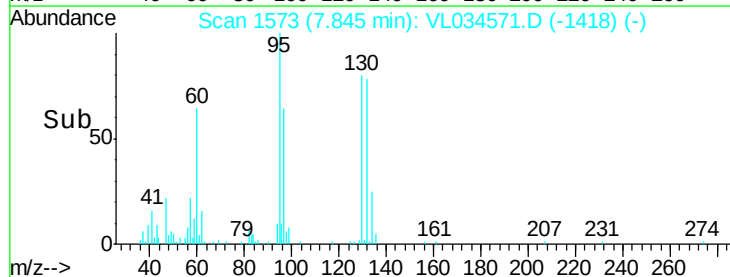
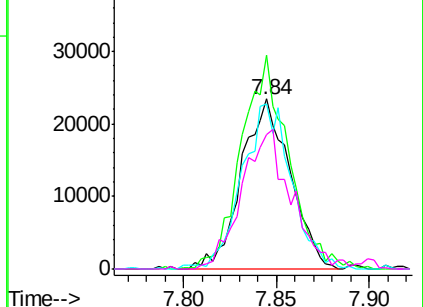


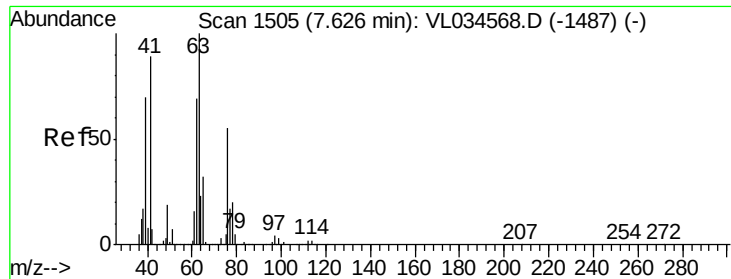
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





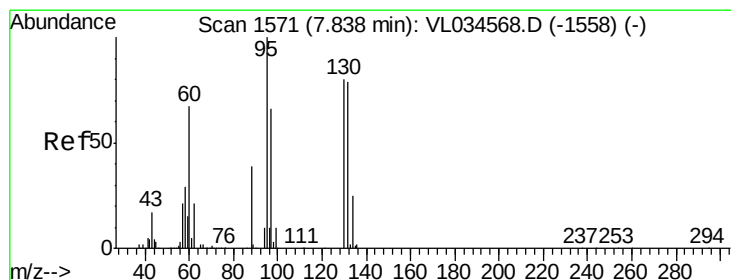
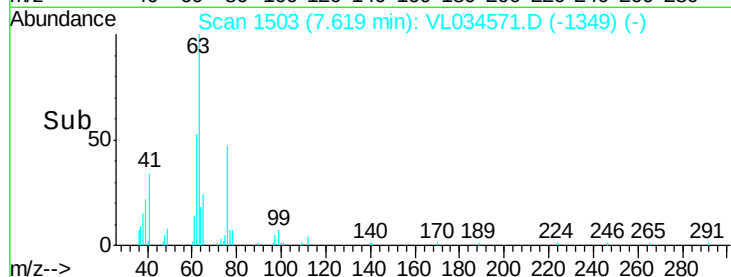
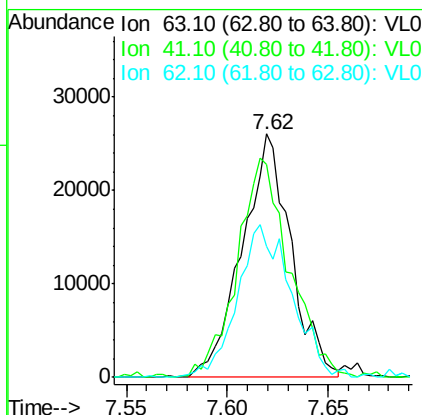
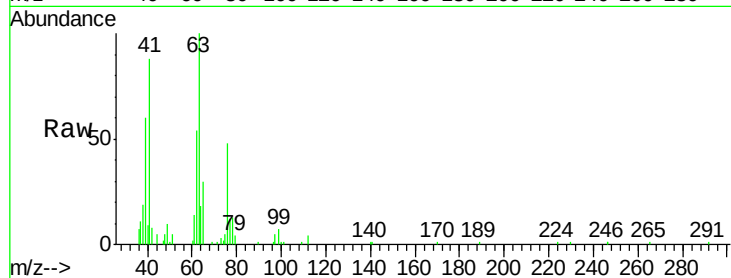
#39
 1,2-Dichloropropane
 Concen: 0.526 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	86.9	66.1	99.1
62	52.7	54.9	82.3#

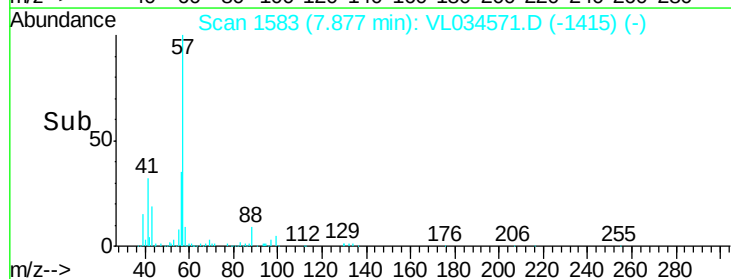
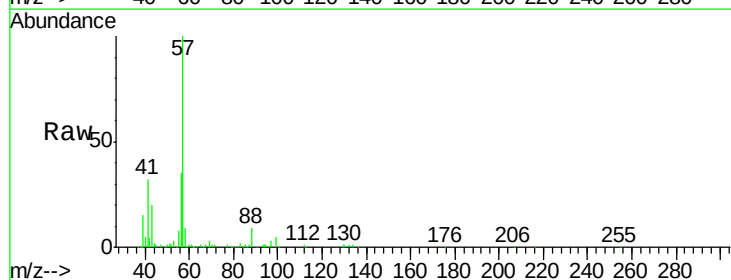
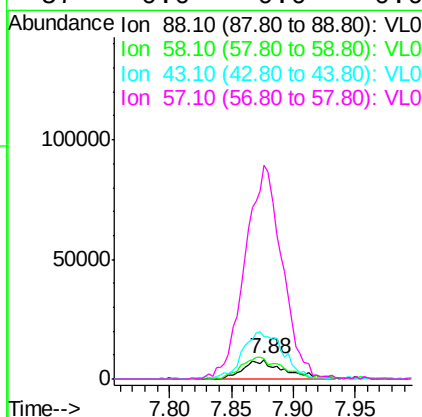
Manual Integrations
 APPROVED

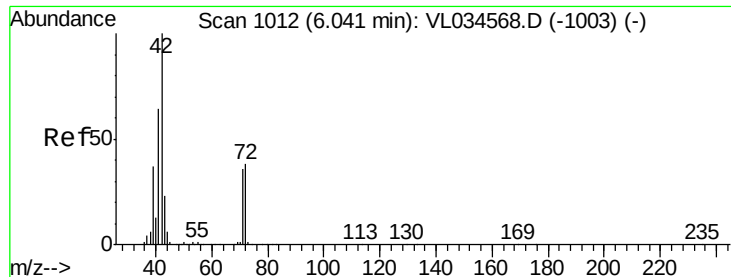
MMDadoda
 1/31/2020 4:24:00 PM



#40
 1,4-Dioxane
 Concen: 0.539 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T. 0.04 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.9	161.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





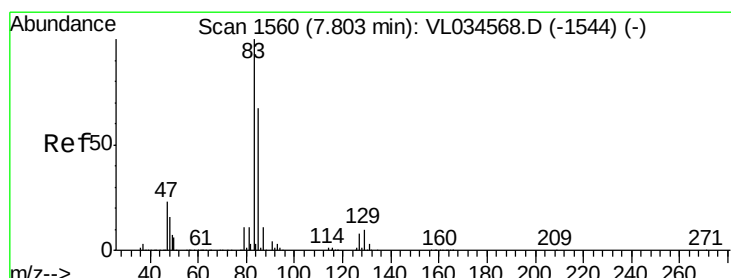
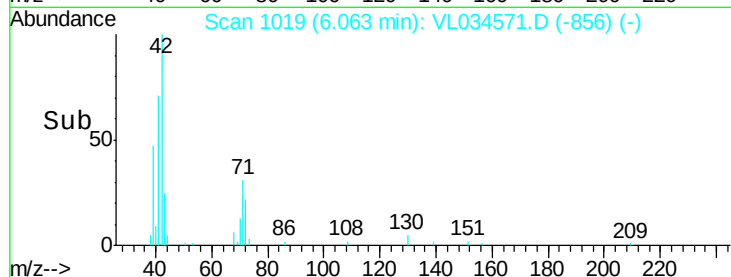
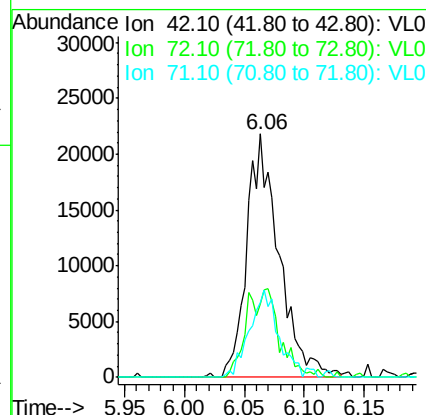
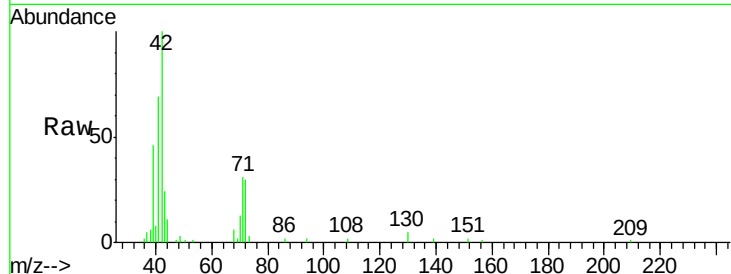
#41
Tetrahydrofuran
Concen: 0.477 ppbv m
RT: 6.06 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.9	46.3#
71	0.0	28.9	43.3#

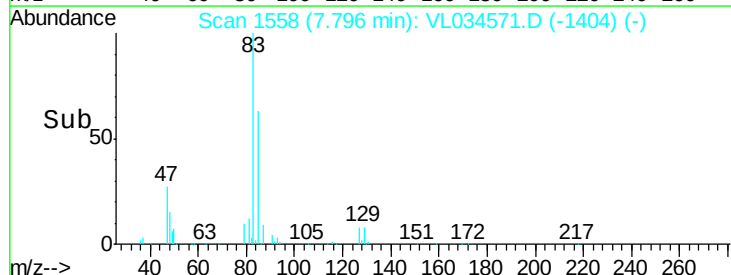
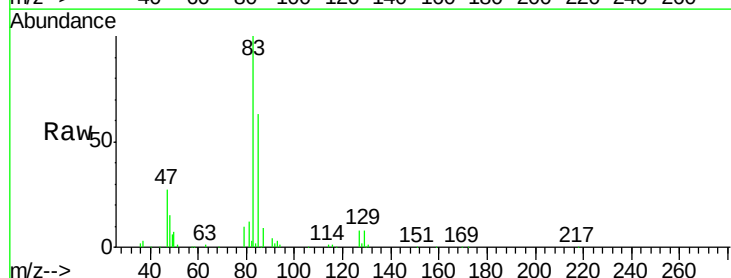
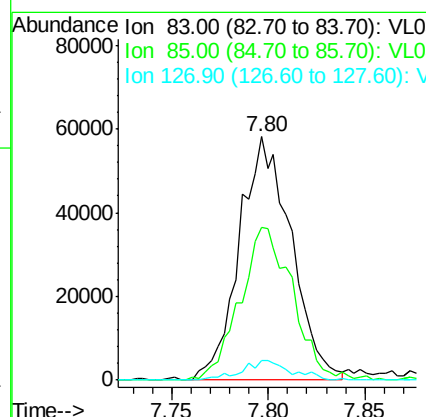
Manual Integrations
APPROVED

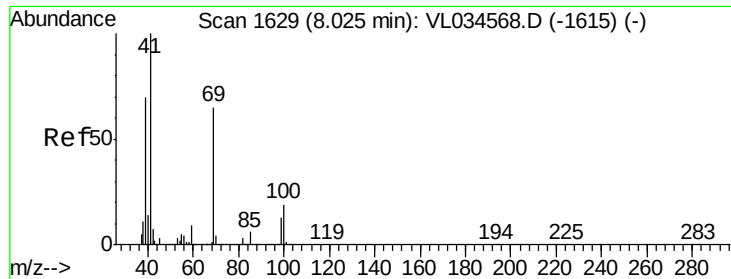
MMDadoda
1/31/2020 4:24:00 PM



#42
Bromodichloromethane
Concen: 0.532 ppbv
RT: 7.80 min Scan# 1558
Delta R.T. -0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.9	49.4	74.2
127	8.2	6.2	9.4





#43

Methyl Methacrylate

Concen: 0.458 ppbv m

RT: 8.02 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VL034571.D

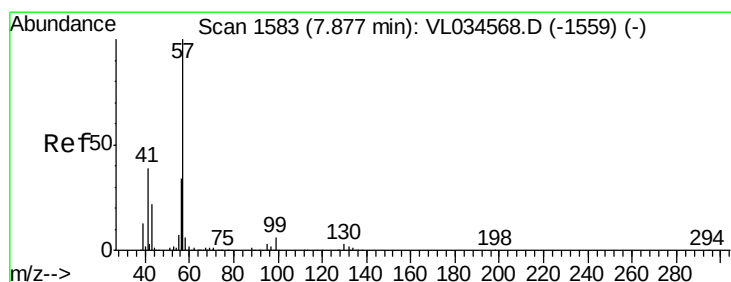
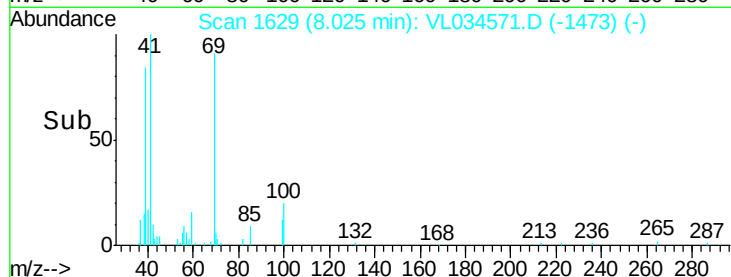
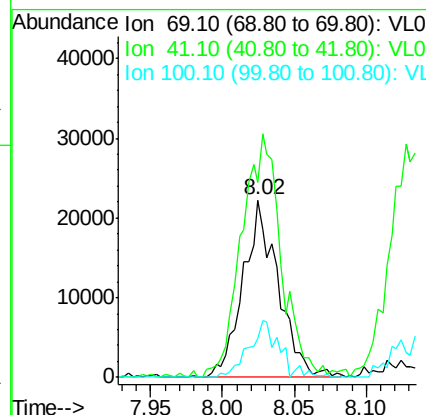
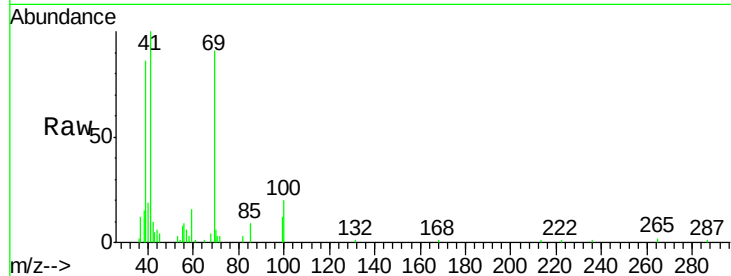
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	155.2	124.0	186.0	
100	28.0	23.1	34.7	

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#44

2,2,4-Trimethylpentane

Concen: 0.480 ppbv

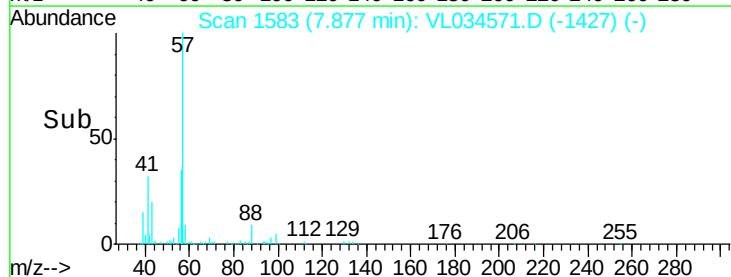
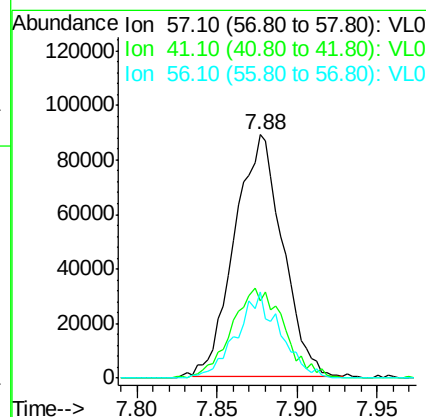
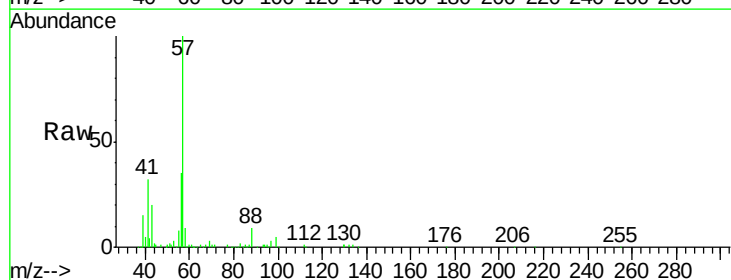
RT: 7.88 min Scan# 1583

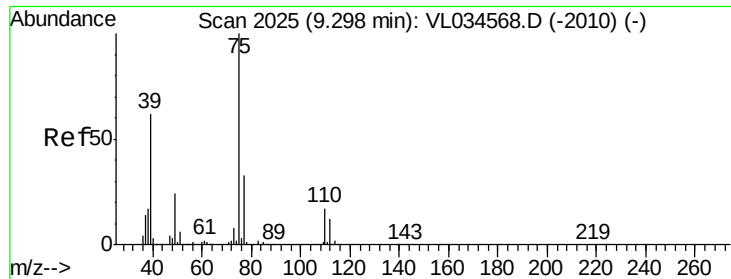
Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	41.0	29.0	43.4	
56	32.4	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 0.418 ppbv m

RT: 9.29 min Scan# 2023

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 44666

Ion Ratio Lower Upper

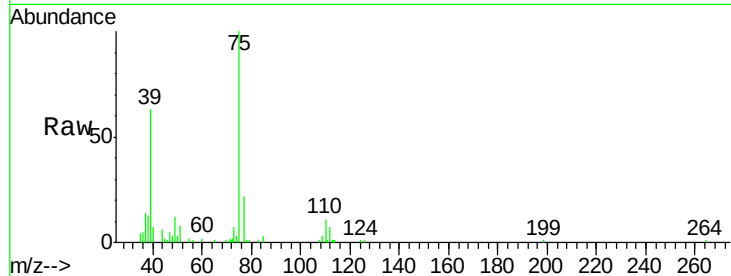
75 100

77 21.9 24.2 36.2#

Manual Integrations
APPROVED

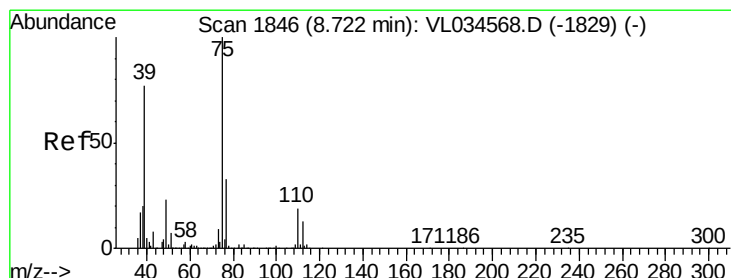
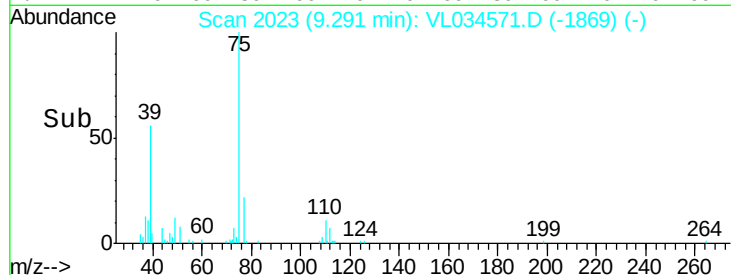
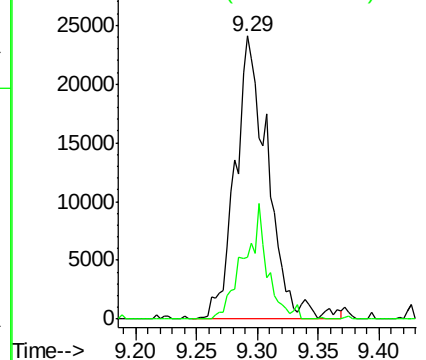
MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.420 ppbv m

RT: 8.72 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

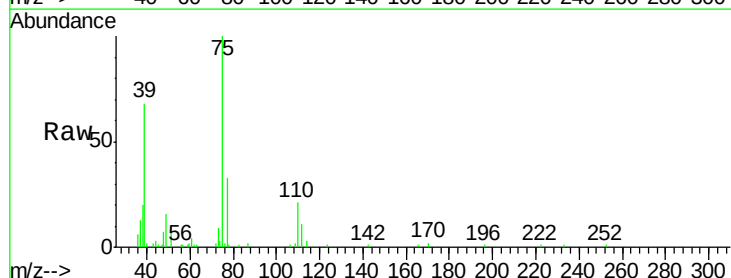
Tgt Ion: 75 Resp: 51273

Ion Ratio Lower Upper

75 100

39 68.2 60.5 90.7

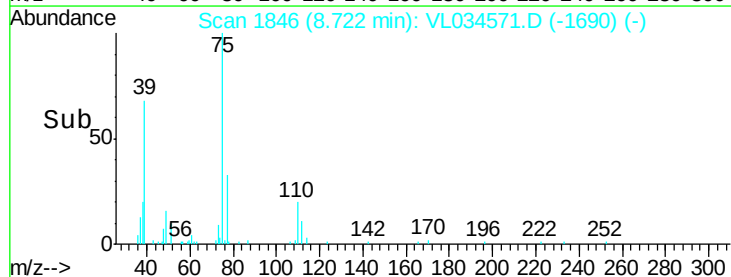
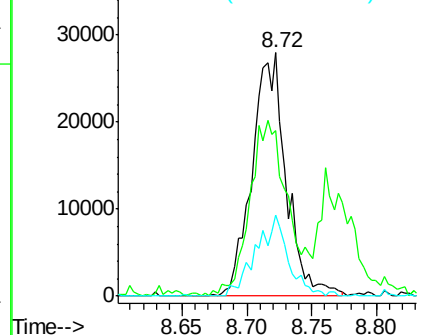
77 33.5 24.8 37.2

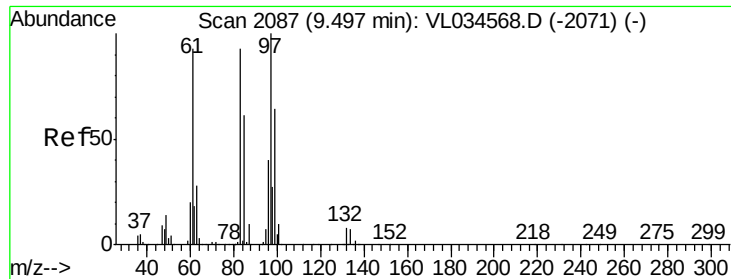


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





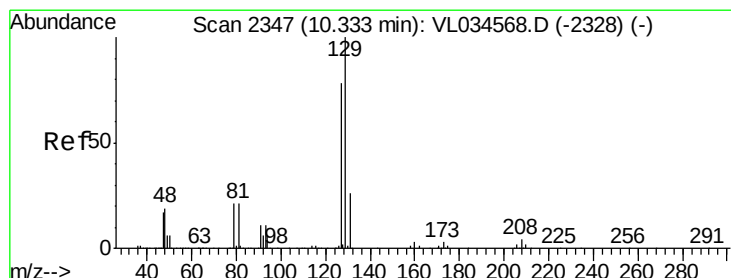
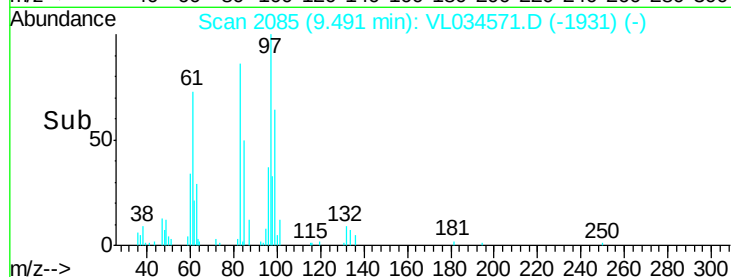
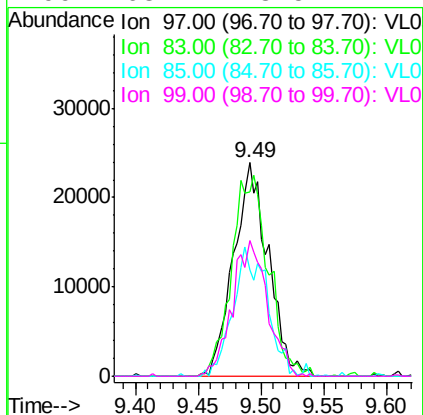
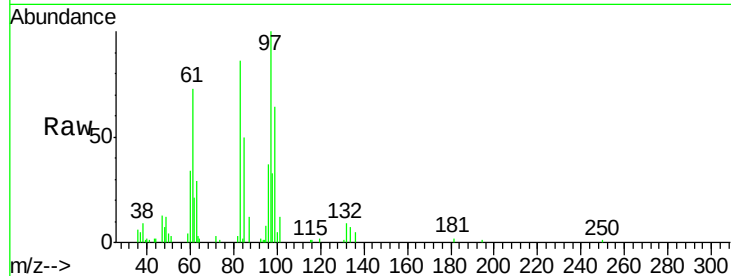
#47
 1,1,2-Trichloroethane
 Concen: 0.496 ppbv m
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	97	Resp:	45745
Ion	Ratio	Lower	Upper
97	100		
83	86.4	75.0	112.4
85	49.8	48.2	72.4
99	63.7	48.5	72.7

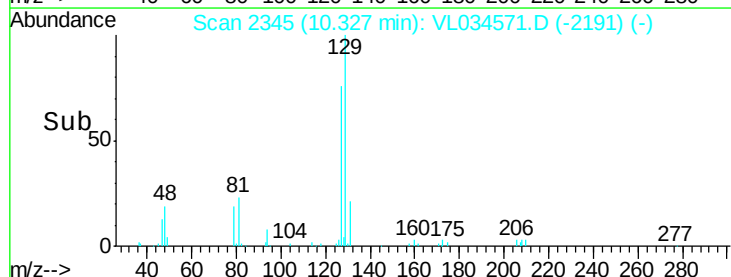
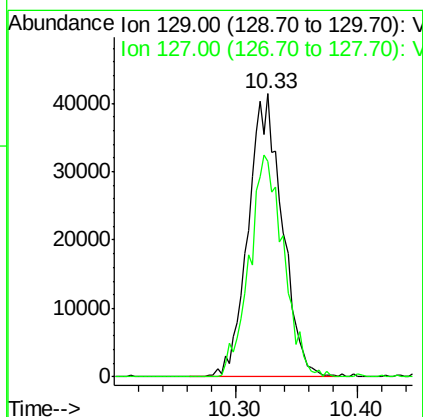
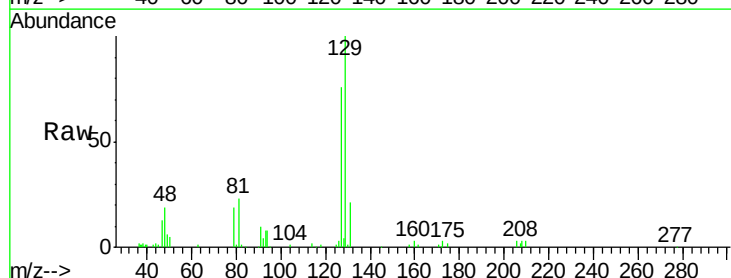
Manual Integrations
 APPROVED

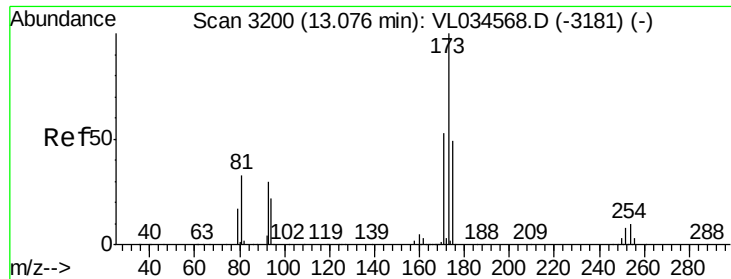
MMDadoda
 1/31/2020 4:24:00 PM



#48
 Dibromochloromethane
 Concen: 0.503 ppbv m
 RT: 10.33 min Scan# 2345
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion:	129	Resp:	80409
Ion	Ratio	Lower	Upper
129	100		
127	79.0	39.4	118.2





#49

Bromoform

Concen: 0.439 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

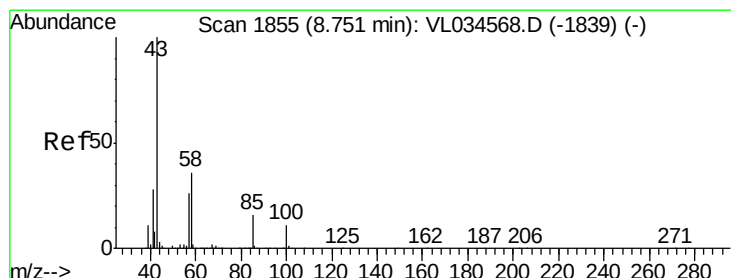
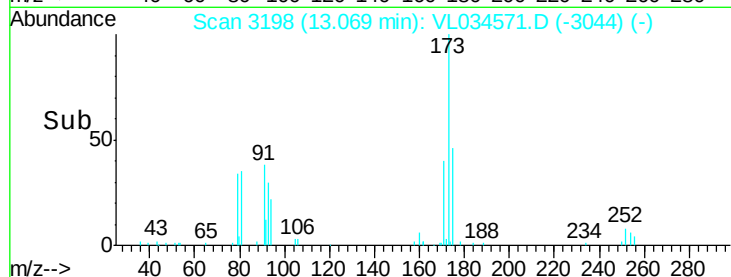
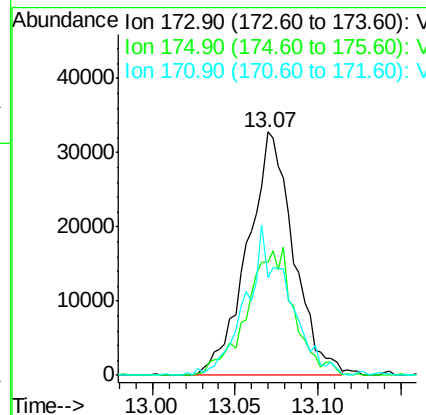
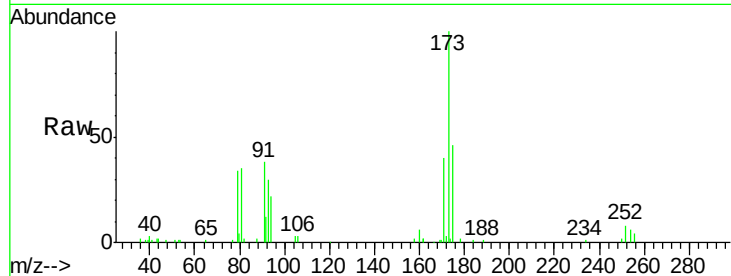
ClientSampleId :

VSTDIC0.5

Tot Ion:	173	Resp:	63513
Ion Ratio	Lower	Upper	
173	100		
175	53.9	39.8	59.8
171	56.6	42.1	63.1

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#50

4-Methyl-2-Pentanone

Concen: 0.469 ppbv m

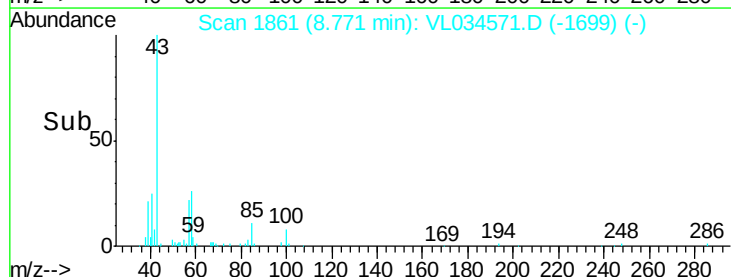
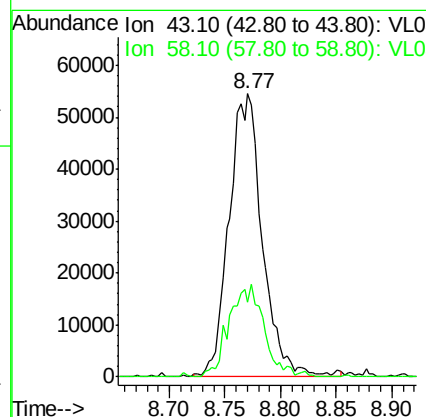
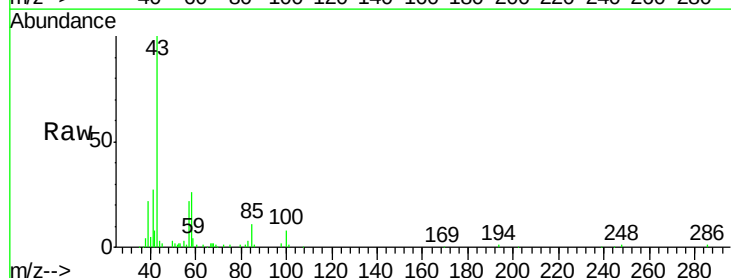
RT: 8.77 min Scan# 1861

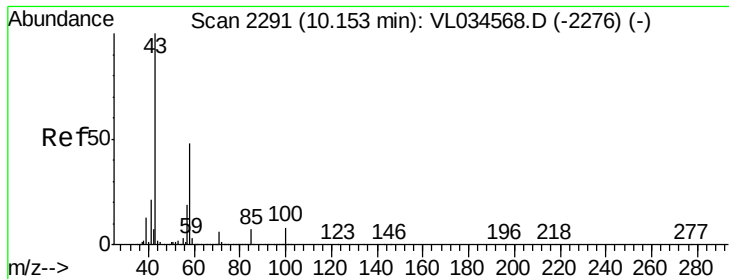
Delta R.T. 0.02 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:	43	Resp:	113608
Ion Ratio	Lower	Upper	
43	100		
58	0.0	28.2	42.2#





#51

2-Hexanone

Concen: 0.406 ppbv

RT: 10.17 min Scan# 2297

Delta R.T. 0.02 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

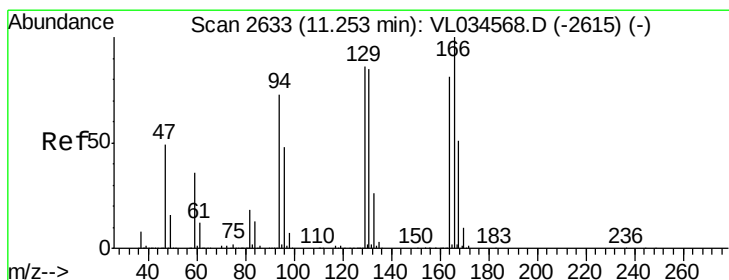
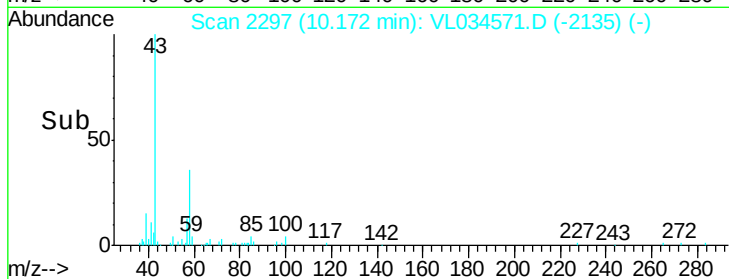
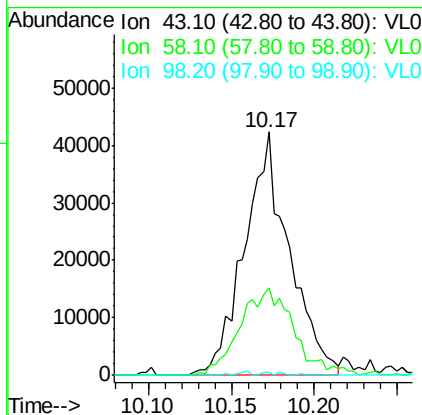
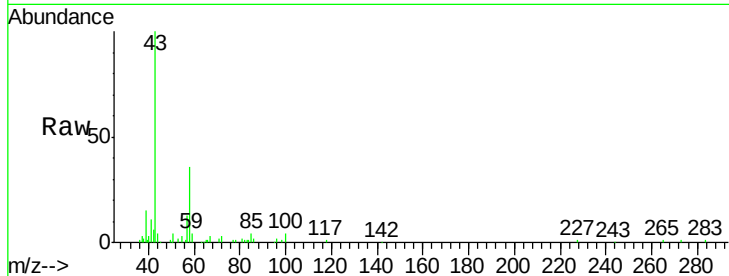
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	79343
Ion Ratio	Lower	Upper	
43	100		
58	43.8	37.4	56.0
98	0.7	0.2	0.2#

Manual Integrations
APPROVED

MMDadoda
1/31/2020 4:24:00 PM



#52

Tetrachloroethene

Concen: 0.496 ppbv m

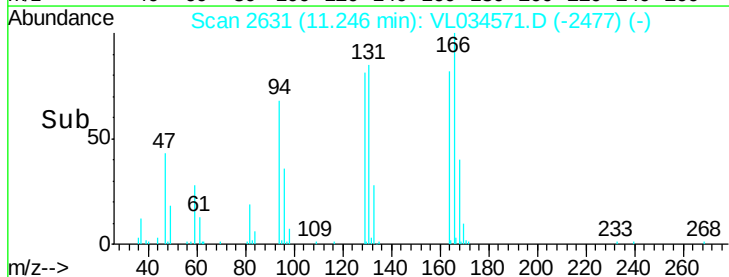
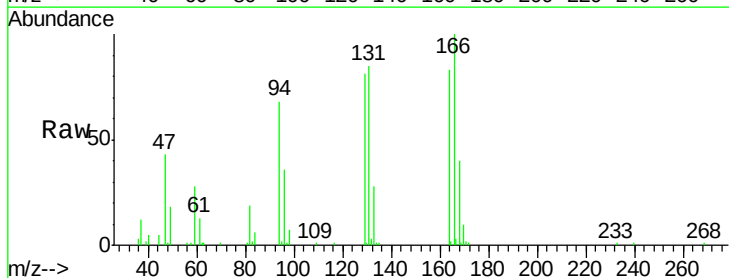
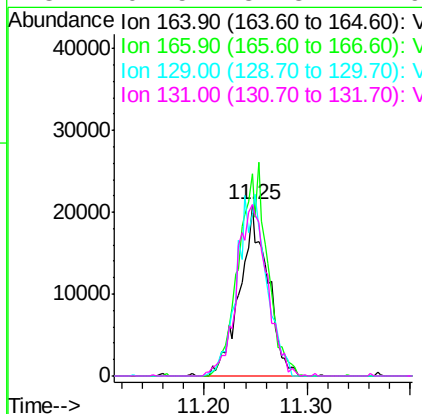
RT: 11.25 min Scan# 2631

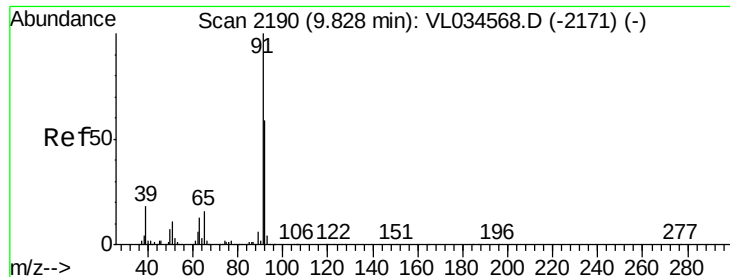
Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:	164	Resp:	39401
Ion Ratio	Lower	Upper	
164	100		
166	120.8	95.7	143.5
129	97.5	82.2	123.2
131	102.5	81.3	121.9





#53

Toluene

Concen: 0.432 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 96557

Ion Ratio Lower Upper

91 100

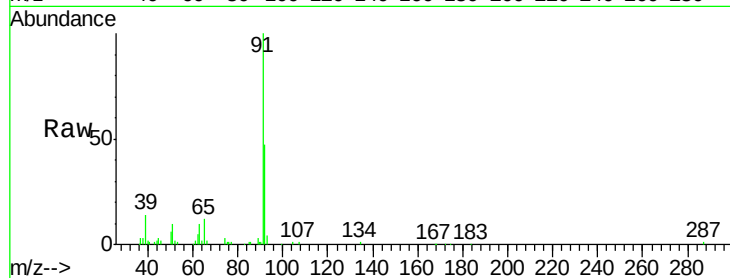
92 60.5 48.4 72.6

Manual Integrations

APPROVED

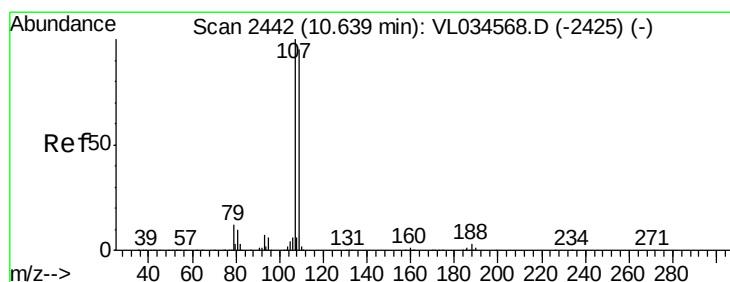
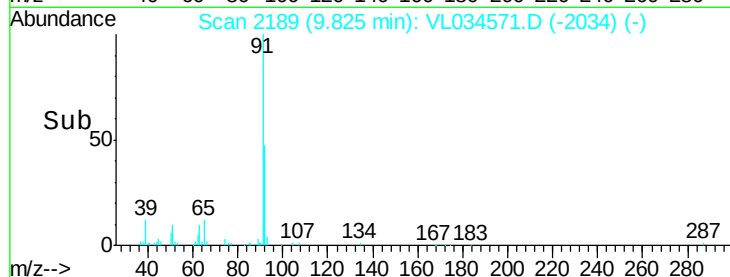
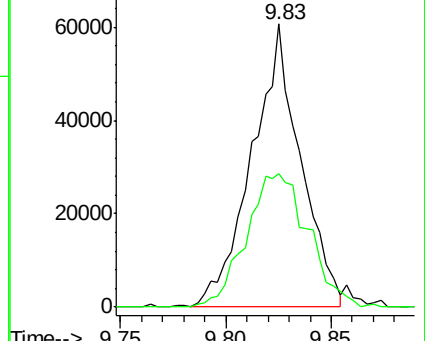
MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.502 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL034571.D

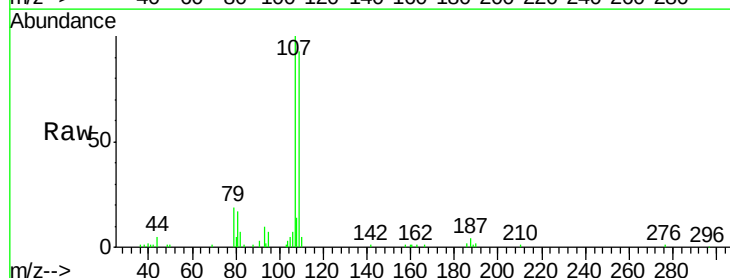
Acq: 30 Jan 2020 14:01

Tgt Ion: 107 Resp: 67294

Ion Ratio Lower Upper

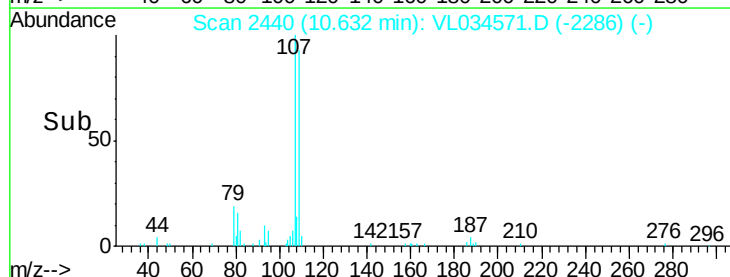
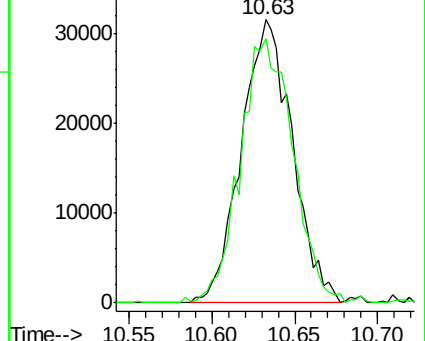
107 100

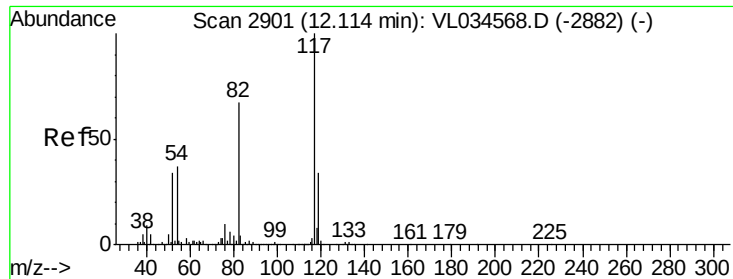
109 92.7 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





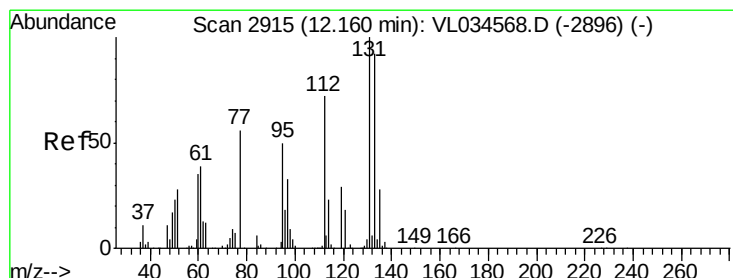
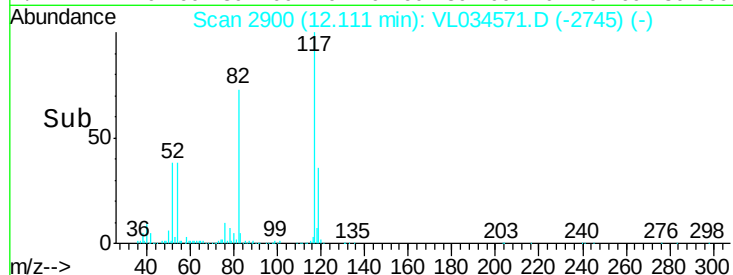
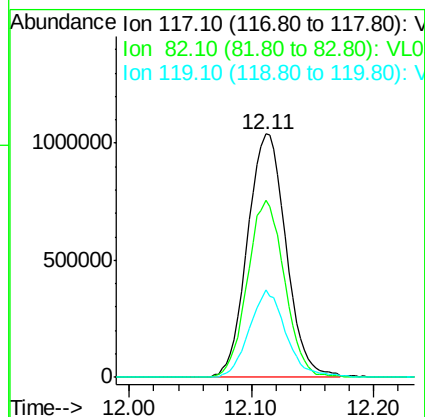
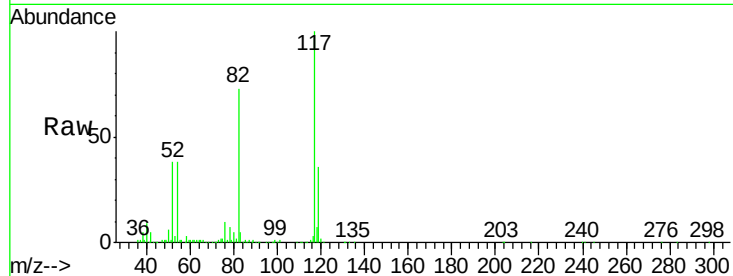
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 2267811
Ion Ratio Lower Upper
117 100
82 70.2 56.2 84.4
119 34.2 27.1 40.7

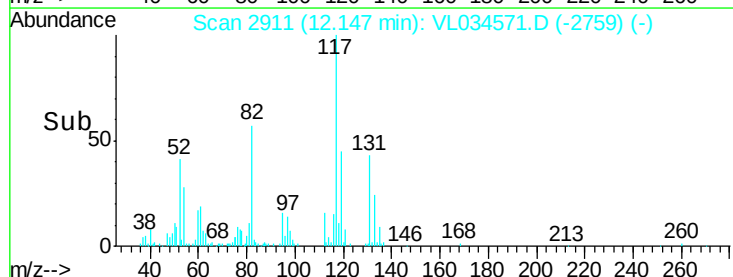
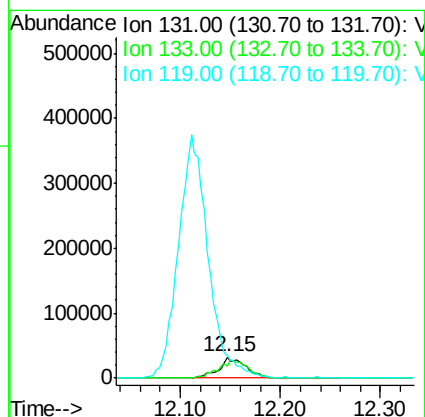
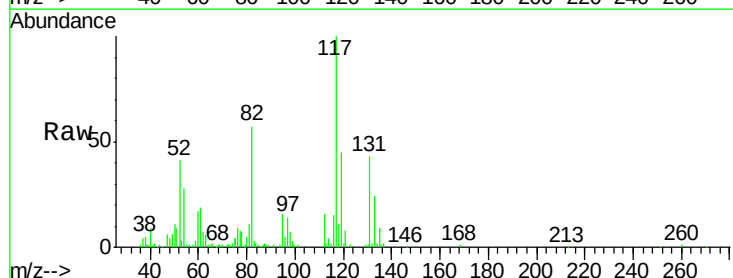
Manual Integrations
APPROVED

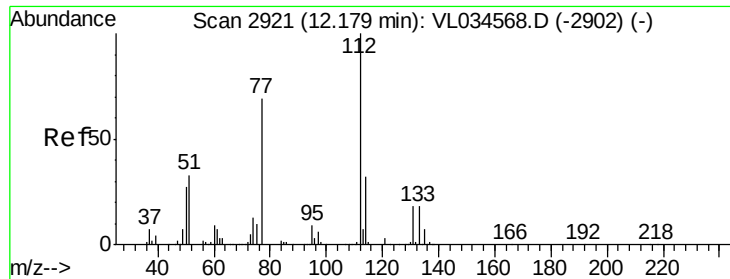
MMDadoda
1/31/2020 4:24:00 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.541 ppbv m
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion:131 Resp: 59219
Ion Ratio Lower Upper
131 100
133 0.0 76.2 114.2#
119 0.0 47.1 70.7#





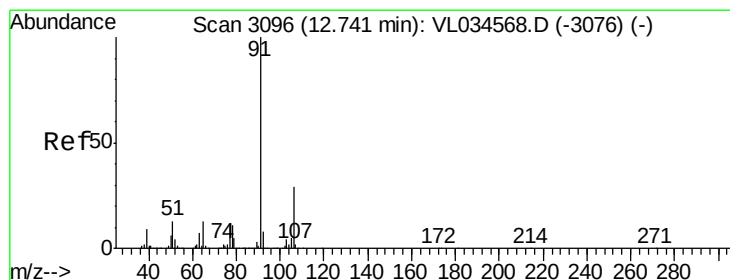
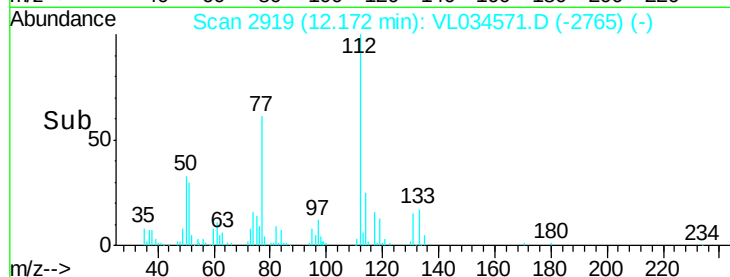
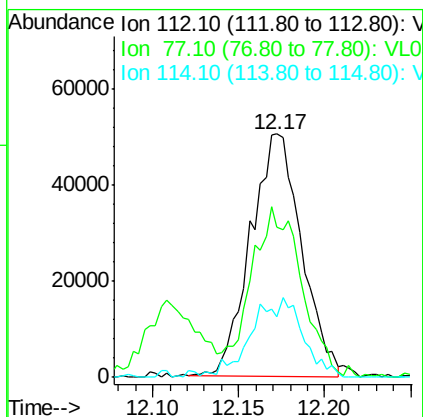
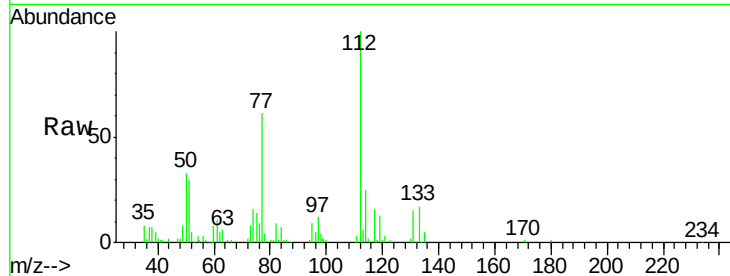
#57
Chlorobenzene
Concen: 0.552 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	58.8	57.4	86.0
114	23.5	28.4	34.8#

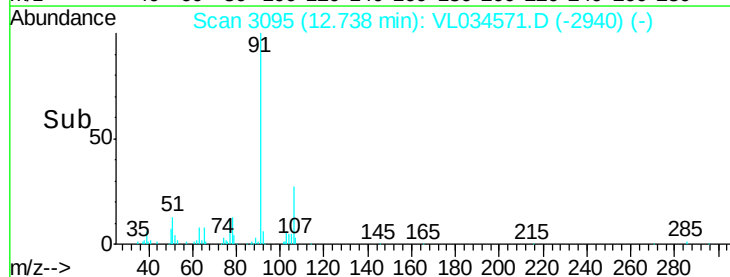
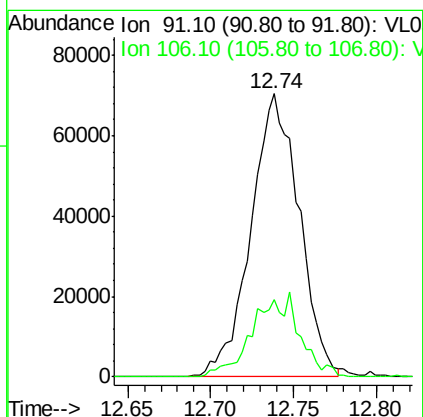
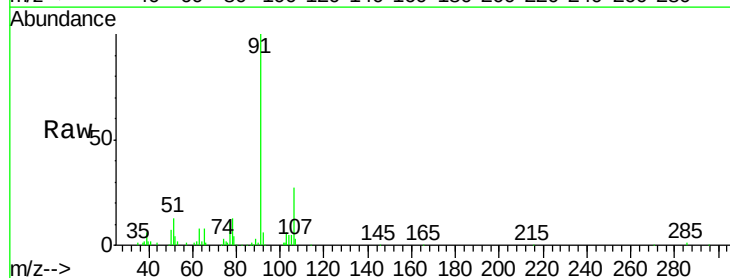
Manual Integrations
APPROVED

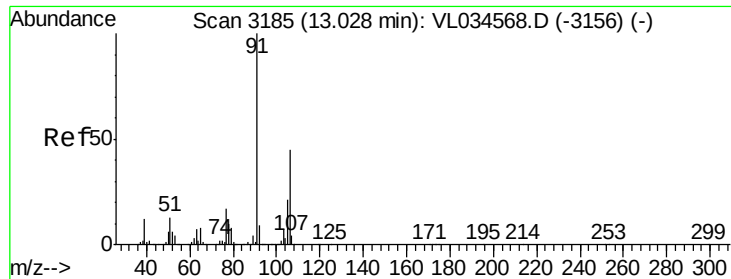
MMDadoda
1/31/2020 4:24:00 PM



#58
Ethyl Benzene
Concen: 0.465 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.3	24.6	36.8





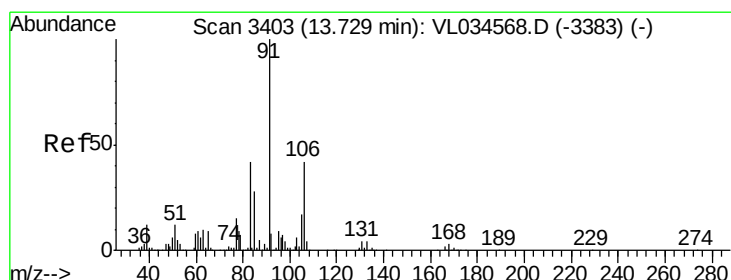
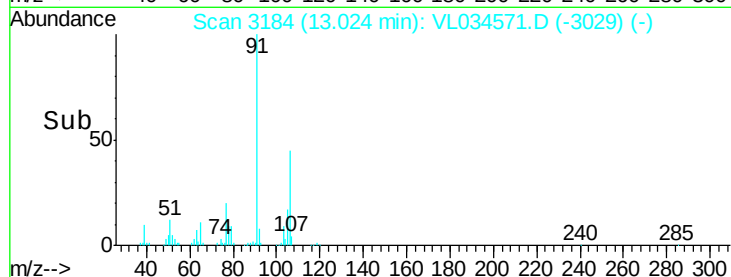
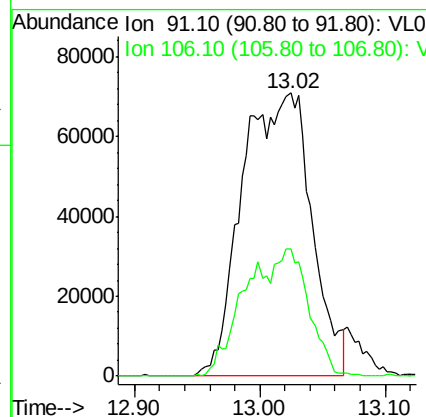
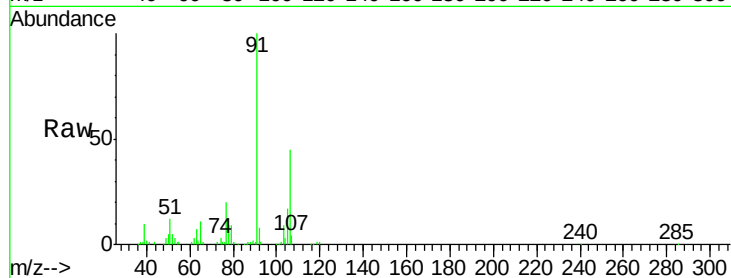
#59
m/p-Xylene
Concen: 1.017 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 272048
Ion Ratio Lower Upper
91 100
106 41.0 35.6 53.4

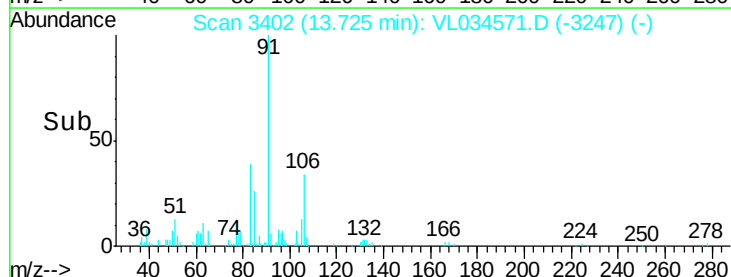
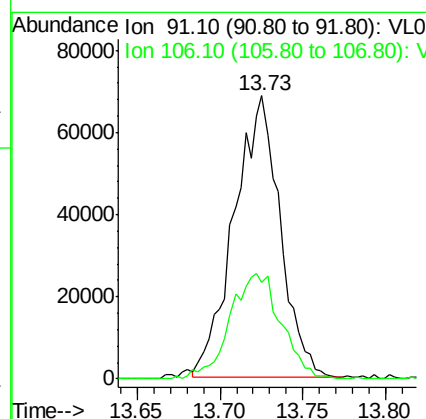
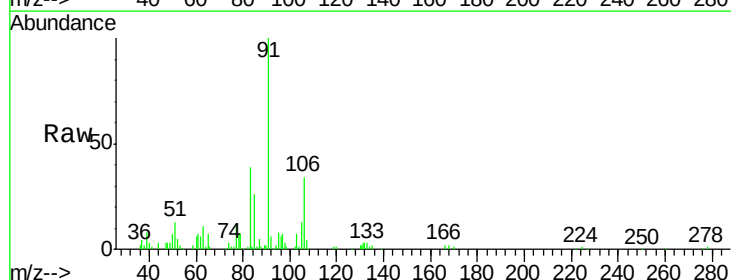
Manual Integrations
APPROVED

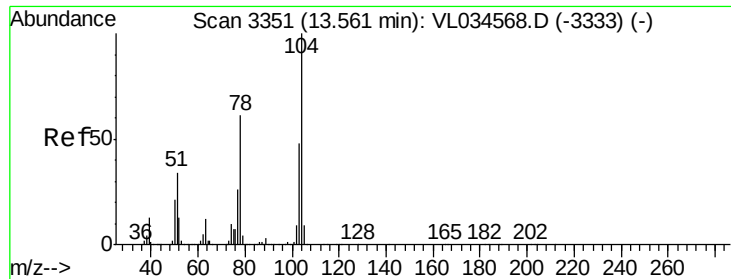
MMDadoda
1/31/2020 4:24:00 PM



#60
o-Xylene
Concen: 0.495 ppbv
RT: 13.73 min Scan# 3402
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion: 91 Resp: 132844
Ion Ratio Lower Upper
91 100
106 41.3 21.4 64.3





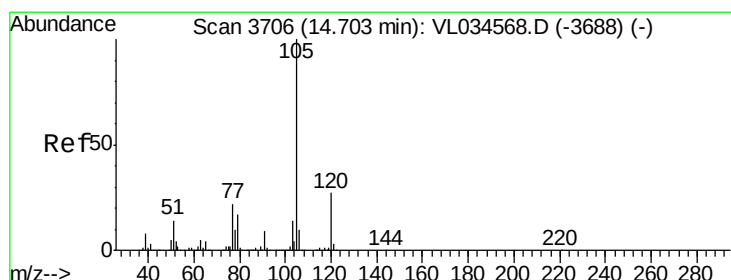
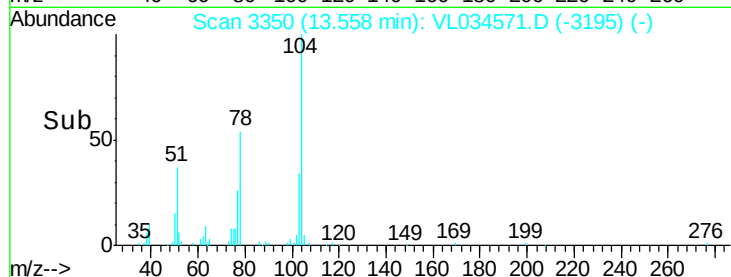
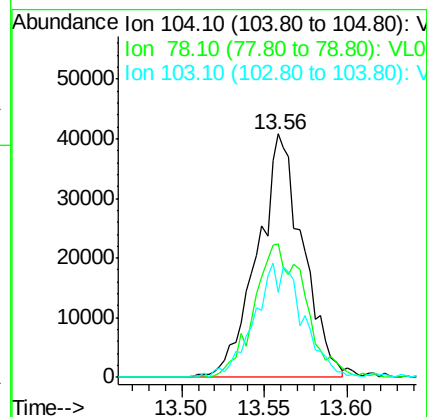
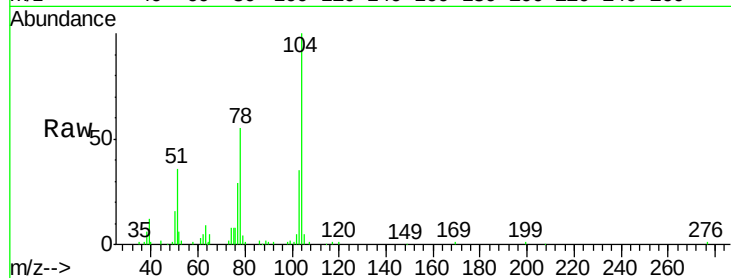
#61
Stvrene
Concen: 0.423 ppbv
RT: 13.56 min Scan# 3350
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	61.5	47.7	71.5
103	50.8	38.6	58.0

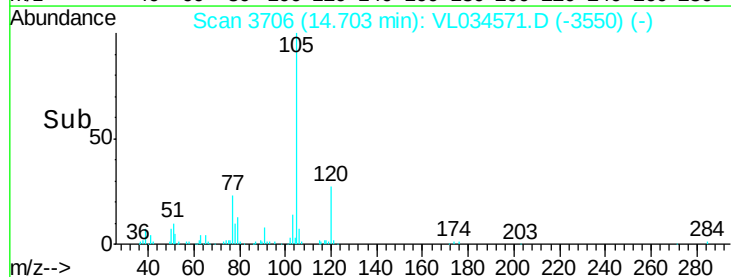
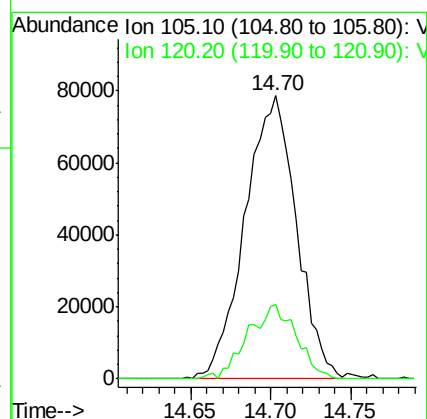
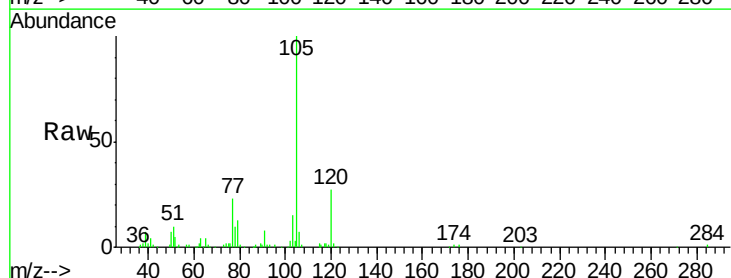
Manual Integrations
APPROVED

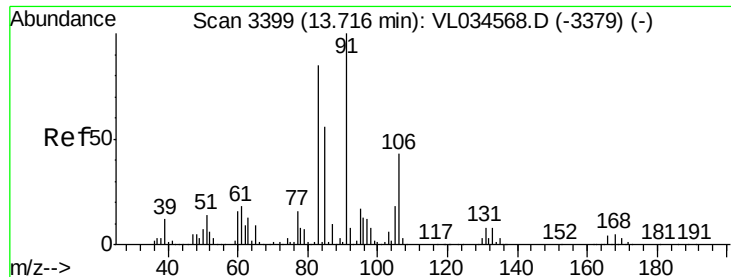
MMDadoda
1/31/2020 4:24:00 PM



#62
Isopropylbenzene
Concen: 0.493 ppbv
RT: 14.70 min Scan# 3706
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.6	30.8





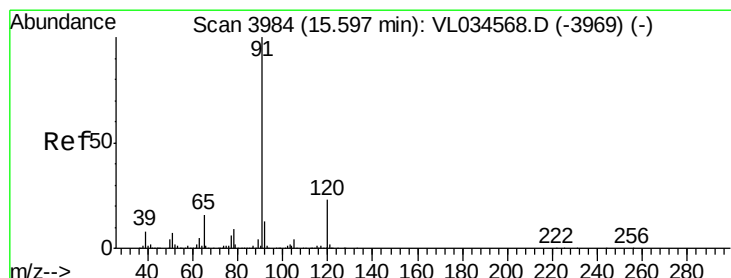
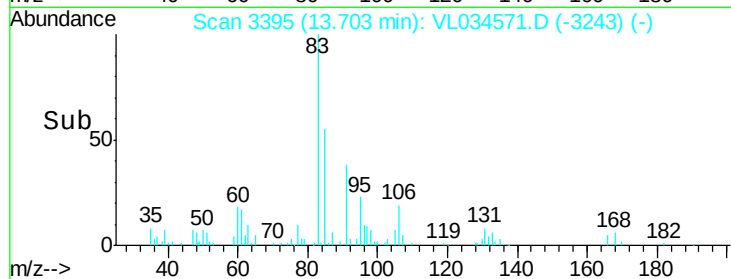
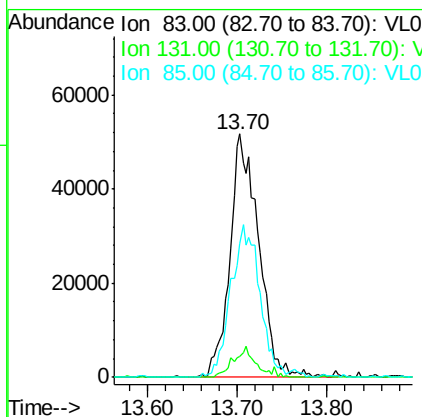
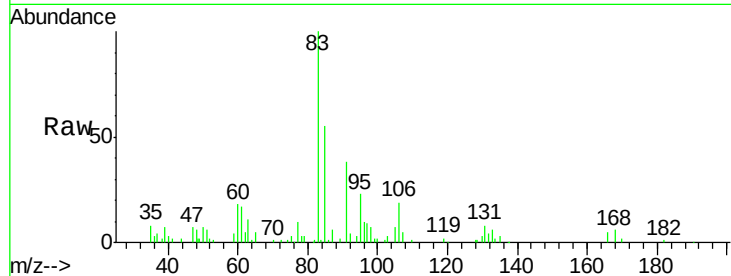
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.530 ppbv m
 RT: 13.70 min Scan# 3395
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	83	Resp	114092
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.8	14.4
85	0.0	32.5	97.4#

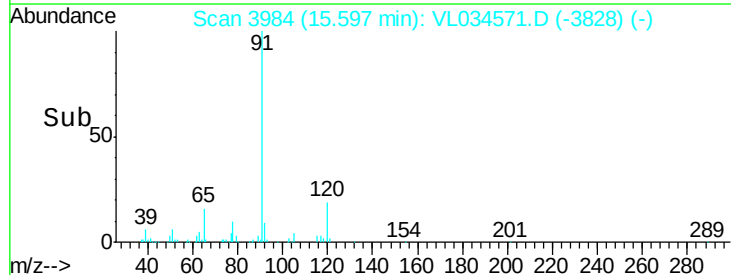
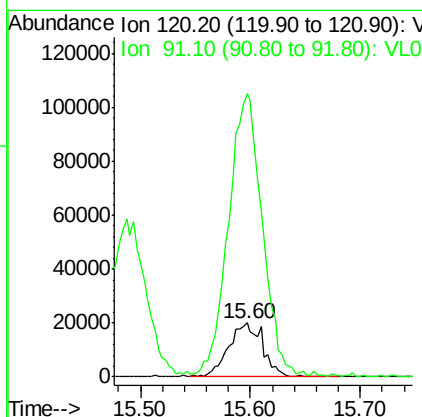
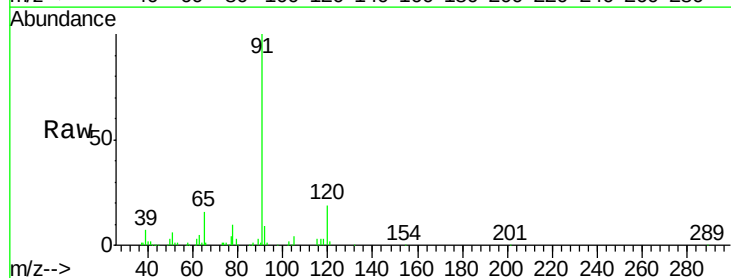
Manual Integrations
 APPROVED

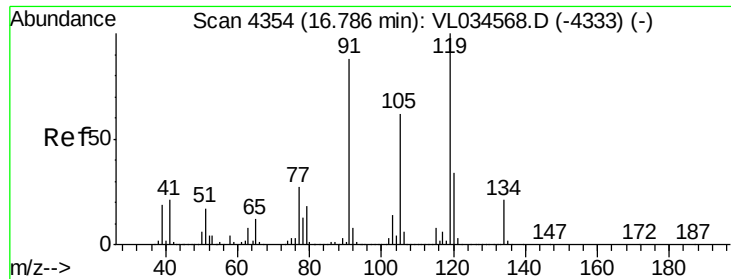
MMDadoda
 1/31/2020 4:24:00 PM



#64
 n-propylbenzene
 Concen: 0.483 ppbv m
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	120	Resp	43270
Ion	Ratio	Lower	Upper
120	100		
91	519.3	375.6	563.4





#65

tert-Butylbenzene

Concen: 0.492 ppbv m

RT: 16.78 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:119 Resp: 155949

Ion Ratio Lower Upper

119 100

91 0.0 72.0 108.0#

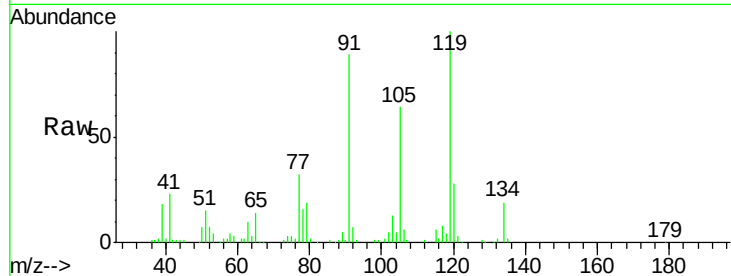
134 0.0 16.1 24.1#

Manual Integrations

APPROVED

MMDadoda

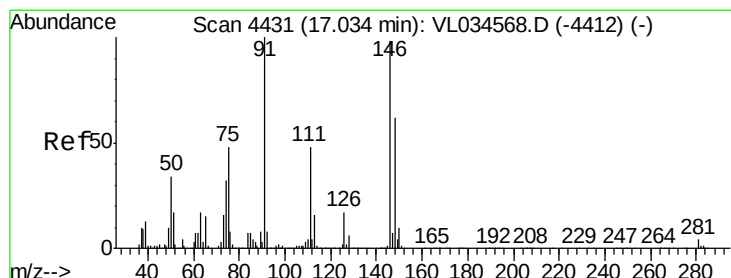
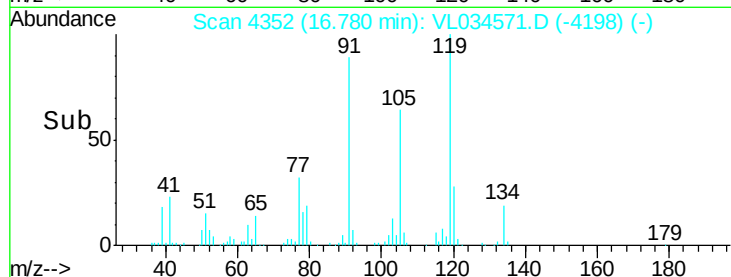
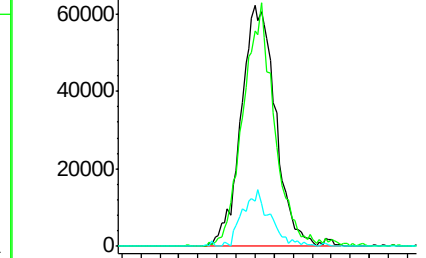
1/31/2020 4:24:00 PM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 0.396 ppbv m

RT: 17.03 min Scan# 4431

Delta R.T. 0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

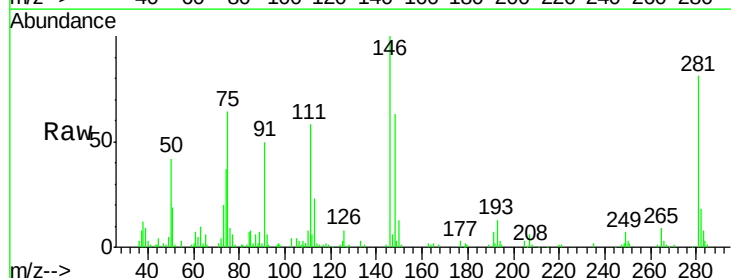
Tgt Ion: 91 Resp: 55096

Ion Ratio Lower Upper

91 100

126 17.8 13.1 19.7

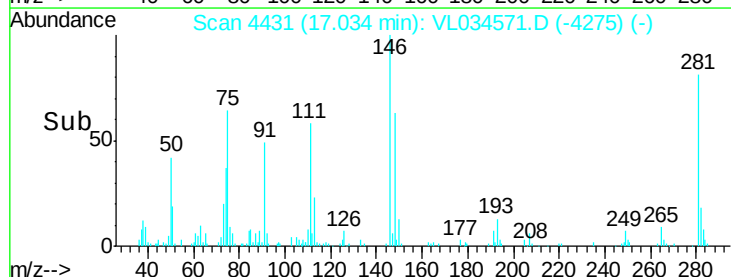
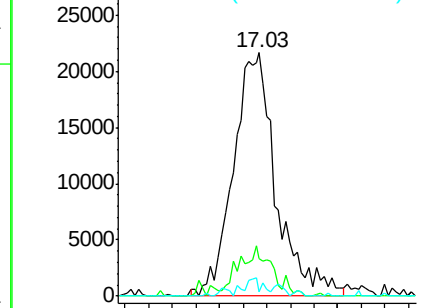
128 5.5 4.2 6.4

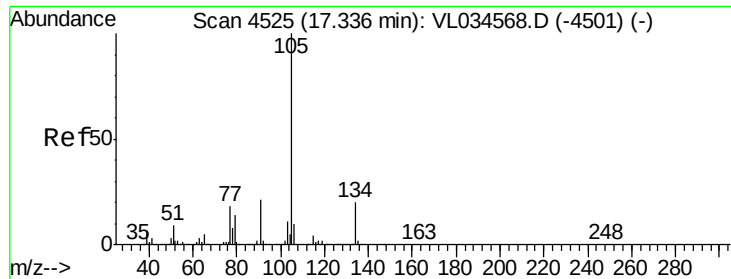


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





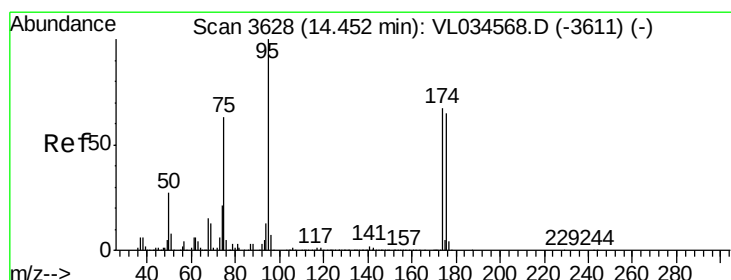
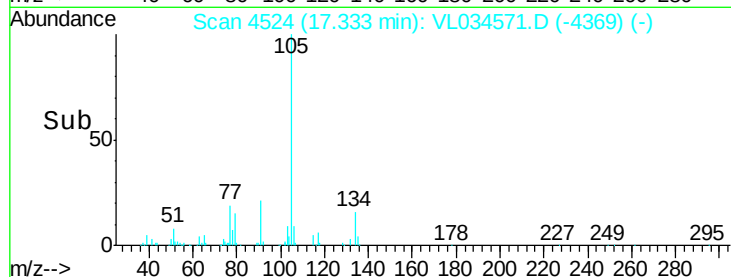
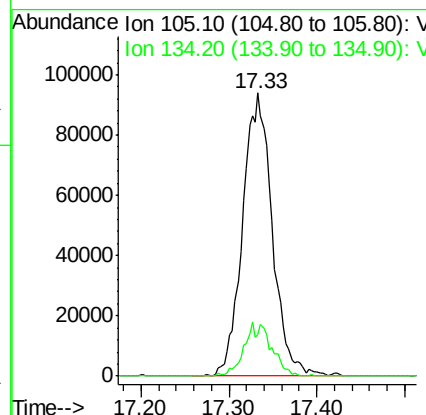
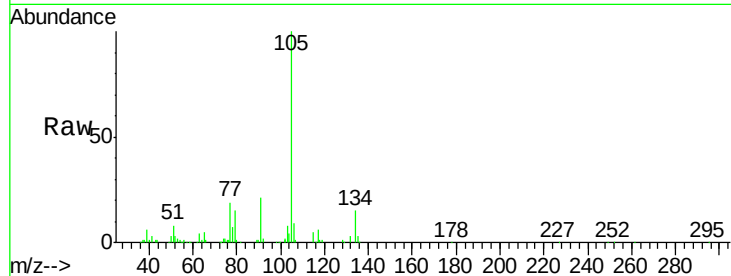
#67
 sec-Butylbenzene
 Concen: 0.495 ppbv m
 RT: 17.33 min Scan# 4524
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion: 105 Resp: 220635
 Ion Ratio Lower Upper
 105 100
 134 0.0 15.1 22.7#

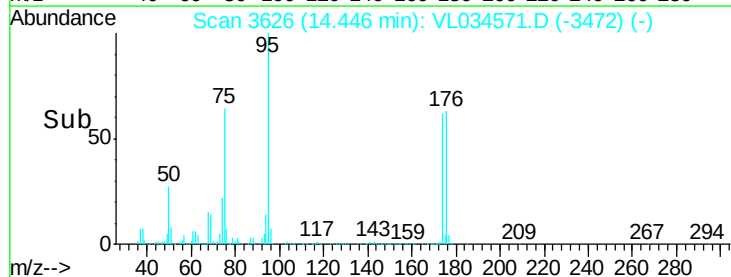
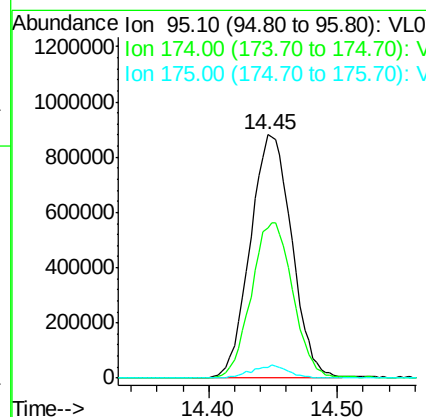
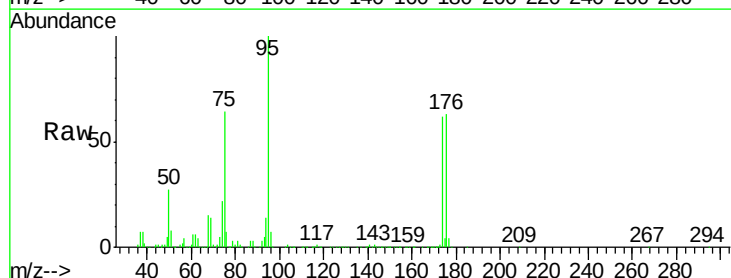
Manual Integrations
 APPROVED

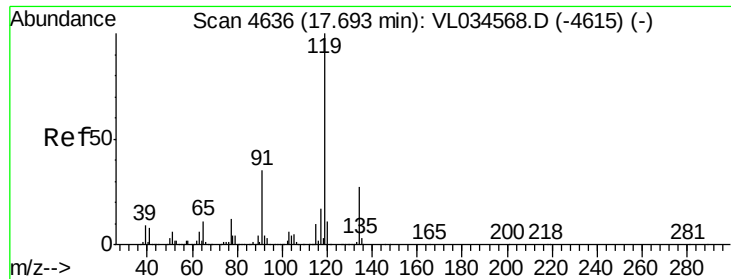
MMDadoda
 1/31/2020 4:24:00 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.470 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion: 95 Resp: 1981373
 Ion Ratio Lower Upper
 95 100
 174 64.3 52.4 78.6
 175 4.6 3.9 5.9





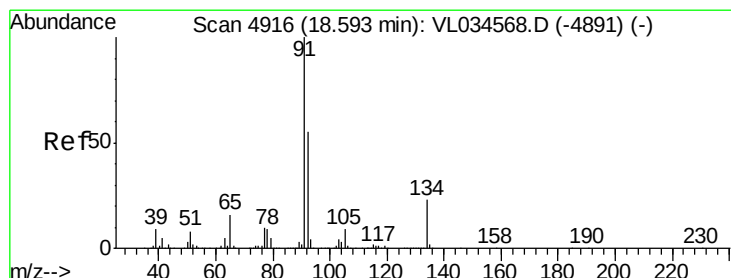
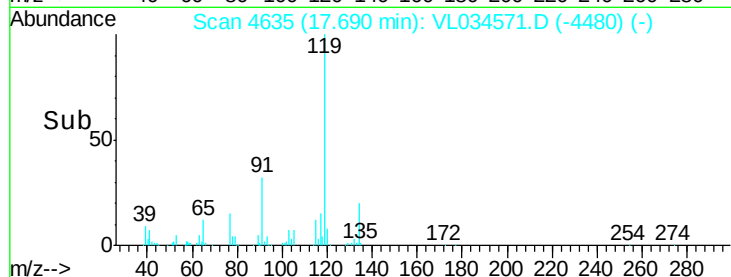
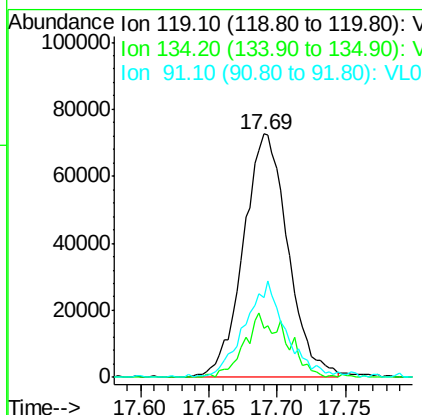
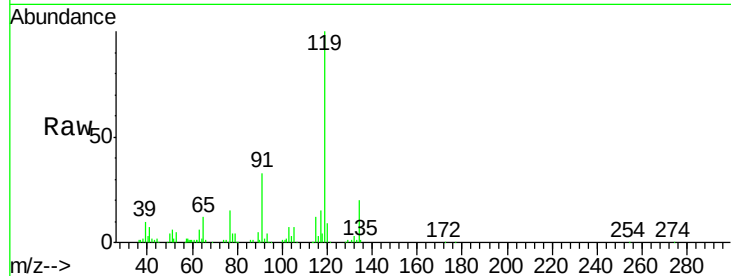
#69
 p-Isopropyltoluene
 Concen: 0.457 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC0.5

Tot Ion:	119	Resp:	165248
Ion Ratio	Lower	Upper	
119	100		
134	24.7	20.7	31.1
91	37.6	26.6	39.8

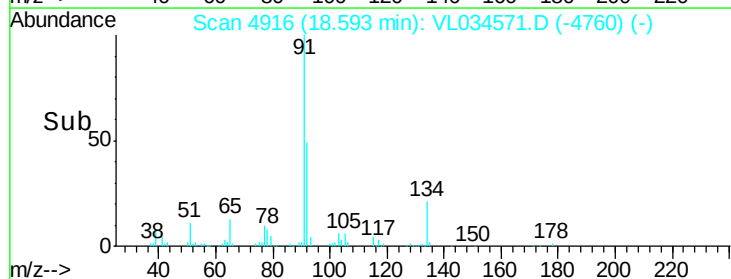
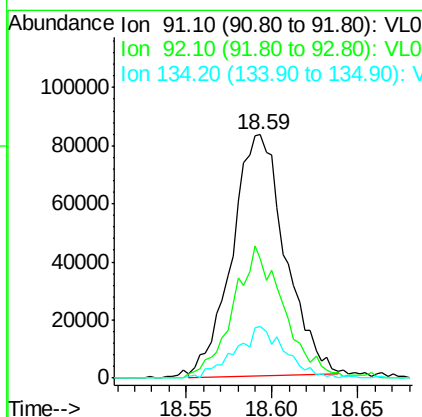
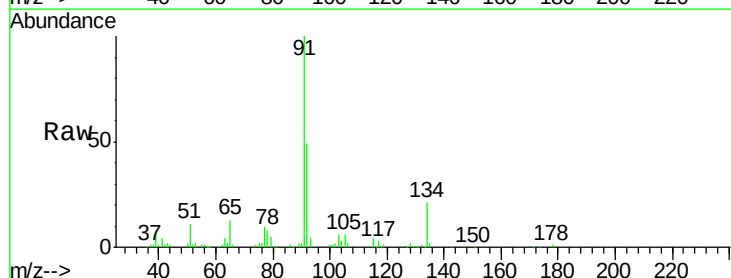
Manual Integrations
 APPROVED

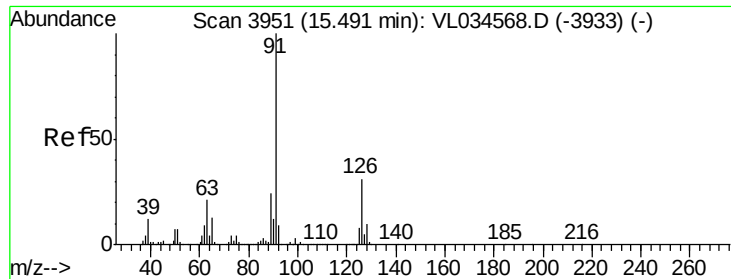
MMDadoda
 1/31/2020 4:24:00 PM



#70
 n-Butylbenzene
 Concen: 0.458 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. -0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion:	91	Resp:	178654
Ion Ratio	Lower	Upper	
91	100		
92	52.8	43.8	65.6
134	20.2	18.0	27.0





#71

2-Chlorotoluene

Concen: 0.452 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 123245

Ion Ratio Lower Upper

91 100

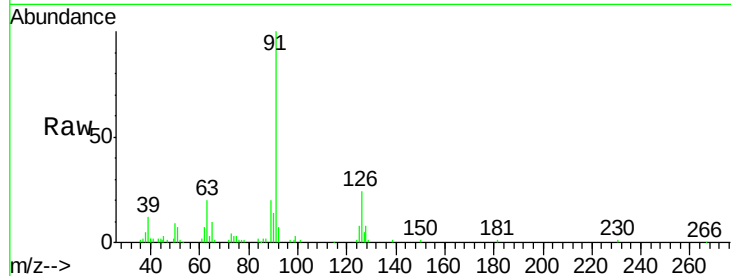
126 31.4 12.0 47.8

Manual Integrations

APPROVED

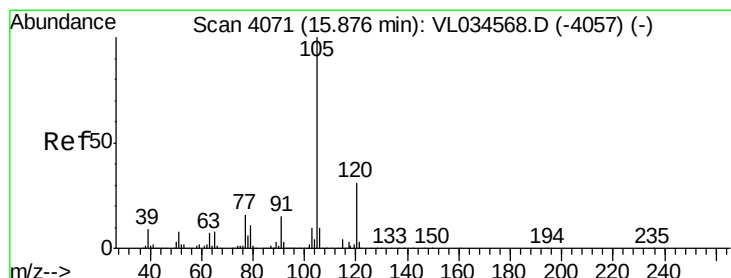
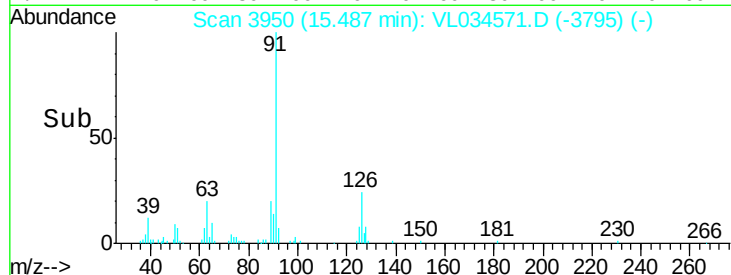
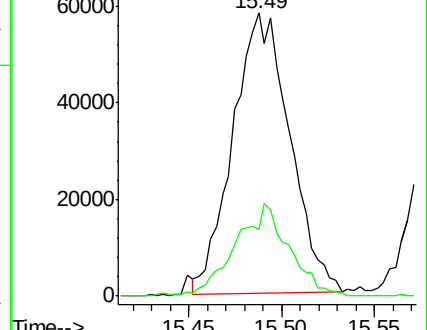
MMDadoda

1/31/2020 4:24:00 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.471 ppbv m

RT: 15.87 min Scan# 4070

Delta R.T. -0.00 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion: 105 Resp: 141525

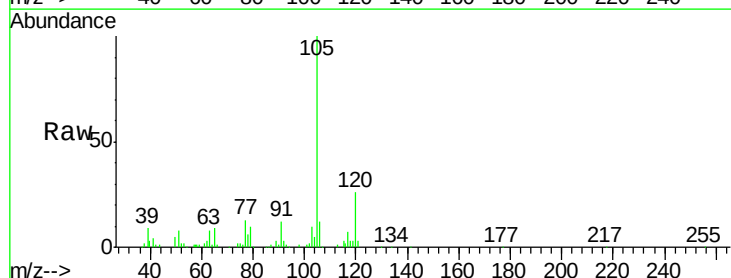
Ion Ratio Lower Upper

105 100

120 27.5 23.7 35.5

91 0.0 11.5 17.3#

77 0.0 12.7 19.1#

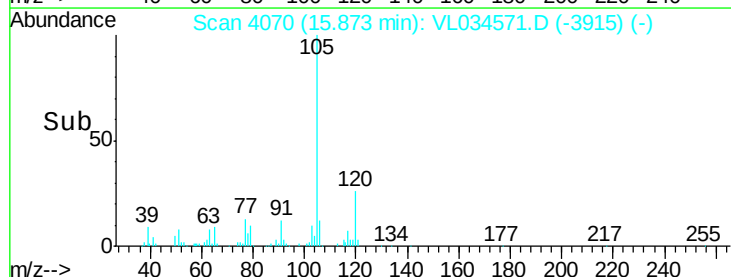
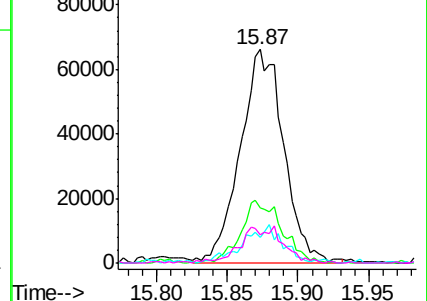


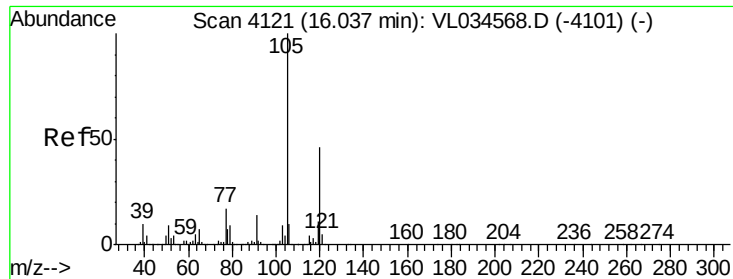
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.475 ppbv m

RT: 16.03 min Scan# 4119

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 140020

Ion Ratio Lower Upper

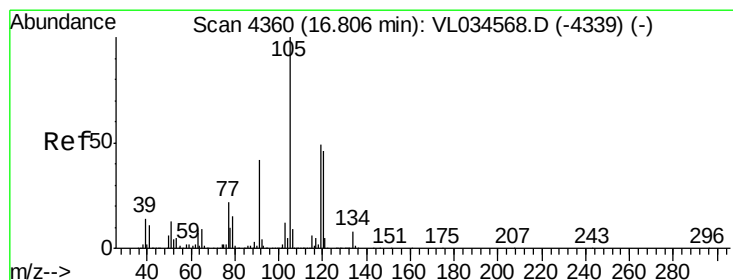
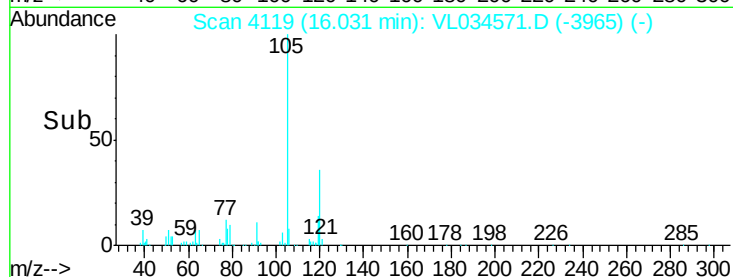
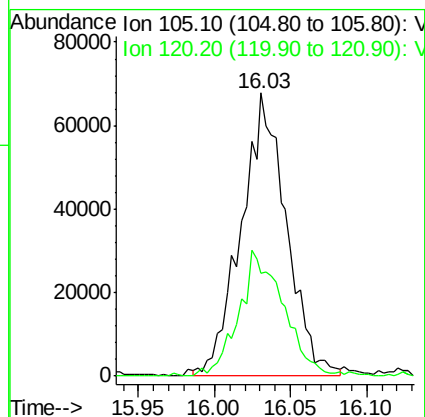
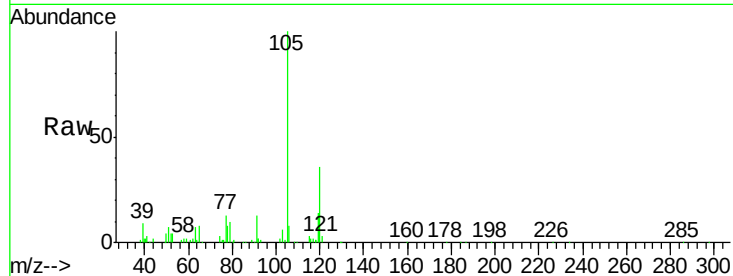
105 100

120 36.5 34.6 52.0

Manual Integrations
APPROVED

MMDadoda

1/31/2020 4:24:00 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.539 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.01 min

Lab File: VL034571.D

Acq: 30 Jan 2020 14:01

Tgt Ion:105 Resp: 169905

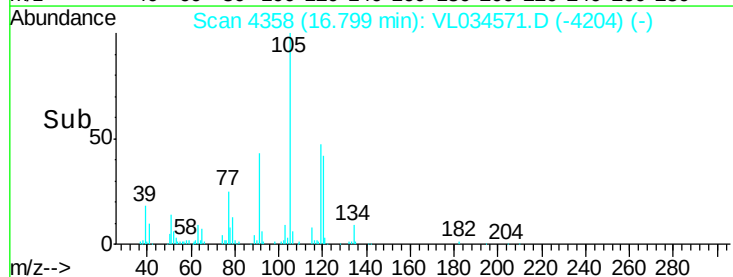
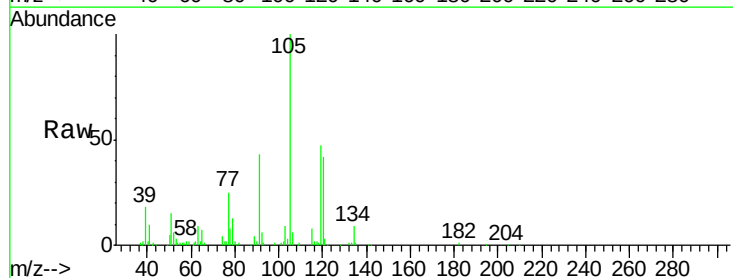
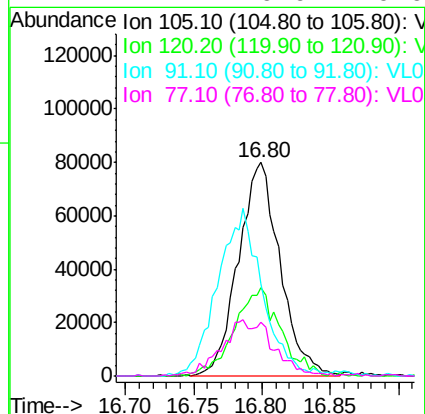
Ion Ratio Lower Upper

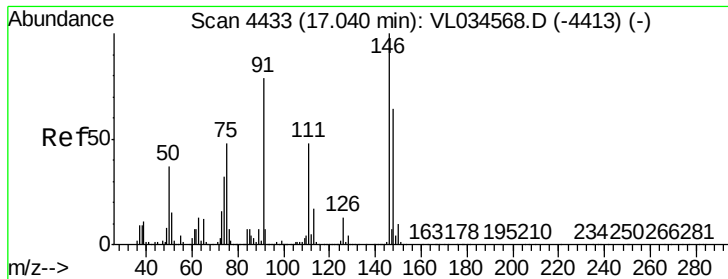
105 100

120 40.5 36.7 55.1

91 41.3 44.0 66.0#

77 24.1 19.9 29.9





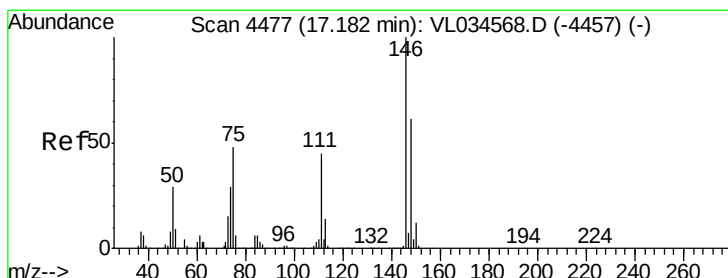
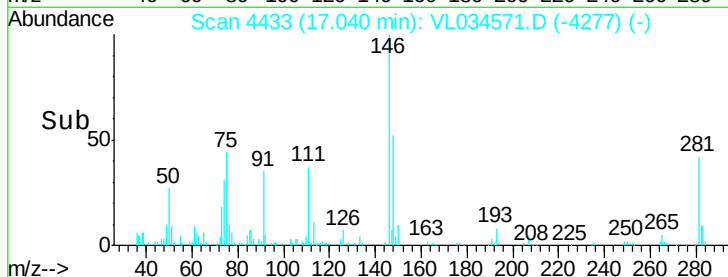
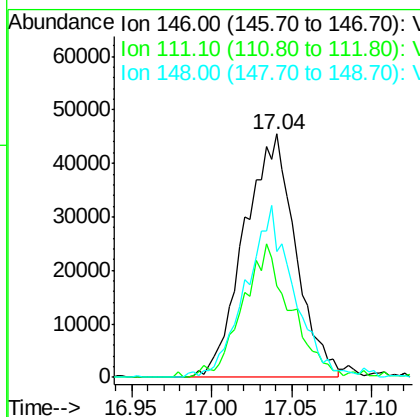
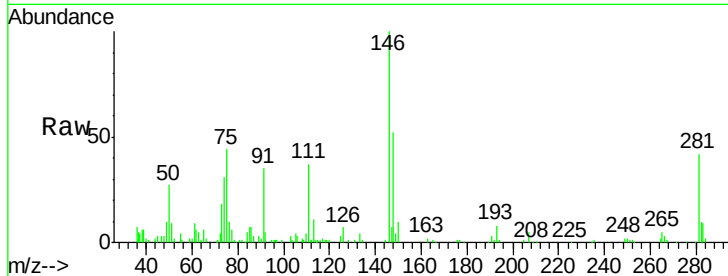
#75
 1,3-Dichlorobenzene
 Concen: 0.532 ppbv
 RT: 17.04 min Scan# 4433
 Delta R.T. 0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.2	25.1	75.3
148	66.1	33.0	99.0

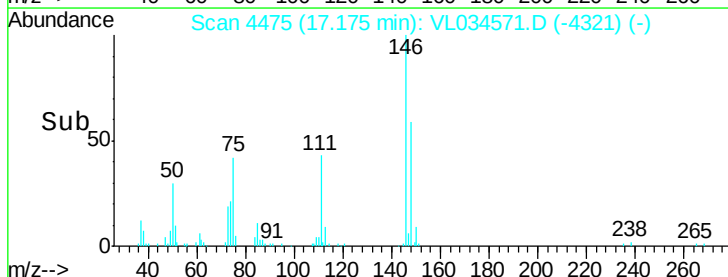
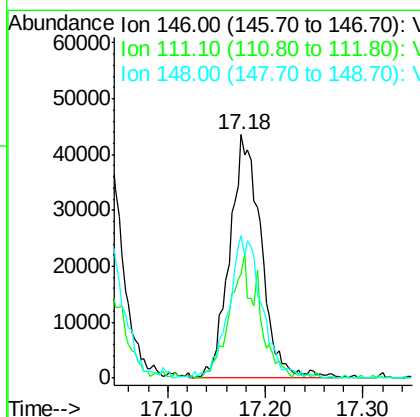
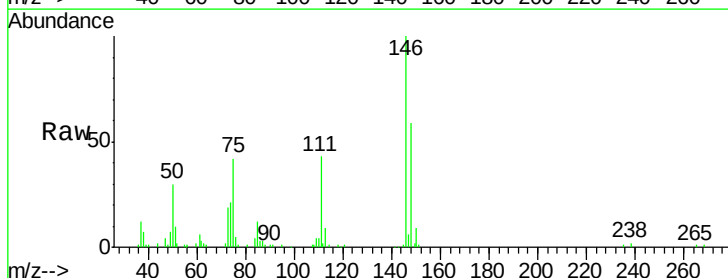
Manual Integrations
 APPROVED

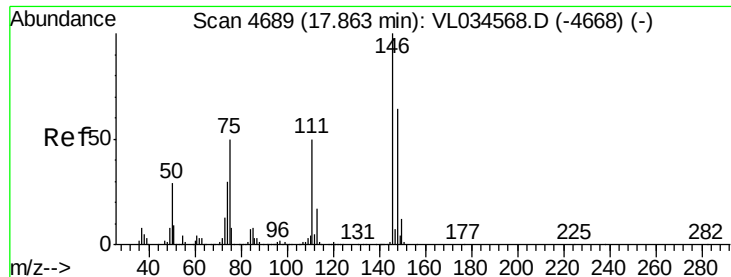
MMDadoda
 1/31/2020 4:24:00 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.536 ppbv m
 RT: 17.18 min Scan# 4475
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.5	70.6#
148	61.1	32.1	96.3





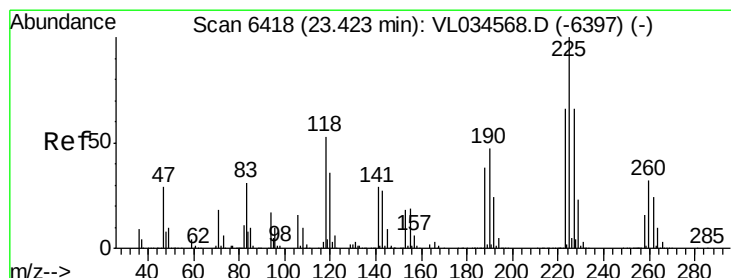
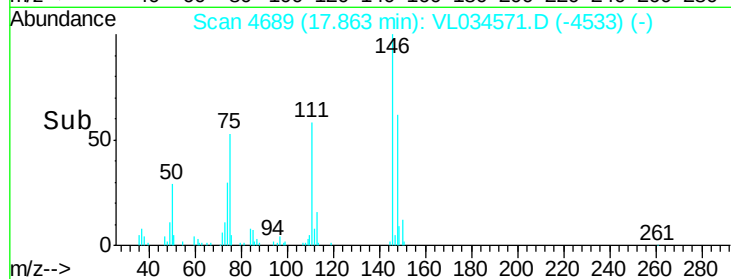
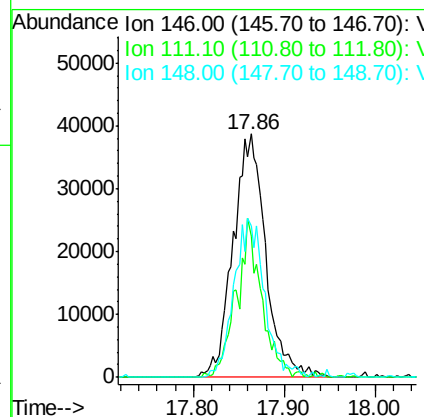
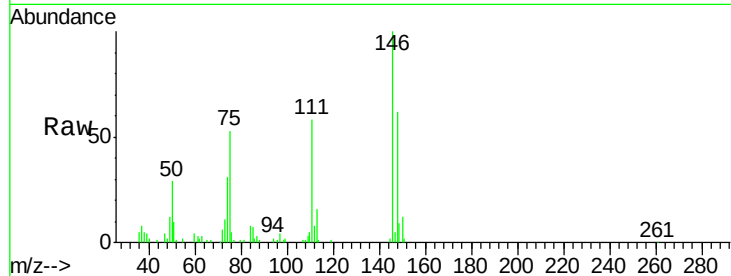
#77
 1,2-Dichlorobenzene
 Concen: 0.546 ppbv m
 RT: 17.86 min Scan# 4689
 Delta R.T. 0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	25.3	75.8
148	61.3	32.1	96.3

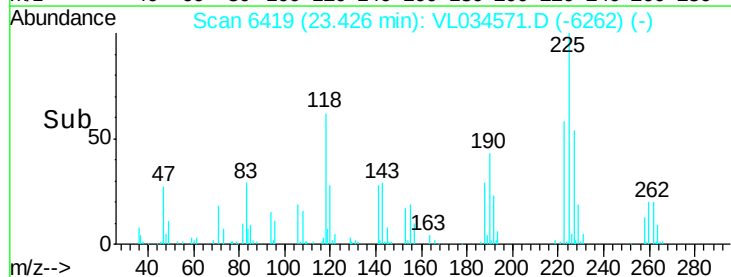
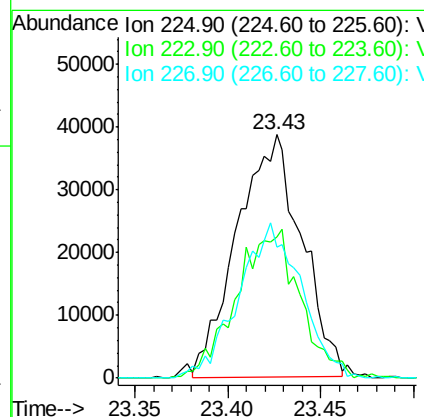
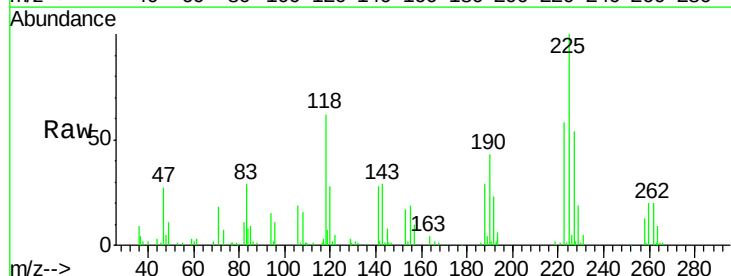
Manual Integrations
 APPROVED

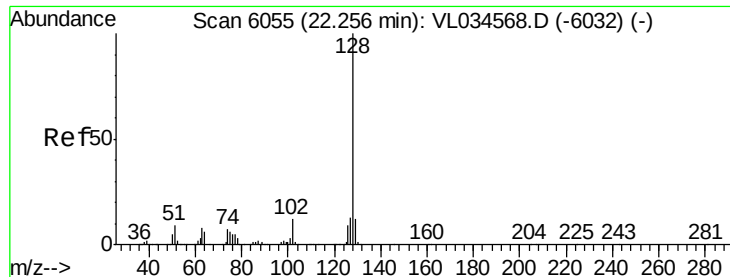
MMDadoda
 1/31/2020 4:24:00 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.555 ppbv
 RT: 23.43 min Scan# 6419
 Delta R.T. 0.00 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.9	51.0	76.6
227	62.1	51.8	77.6





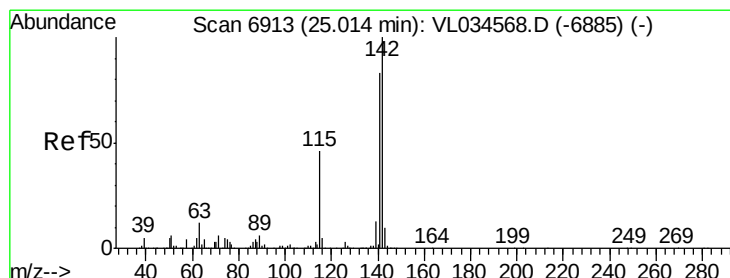
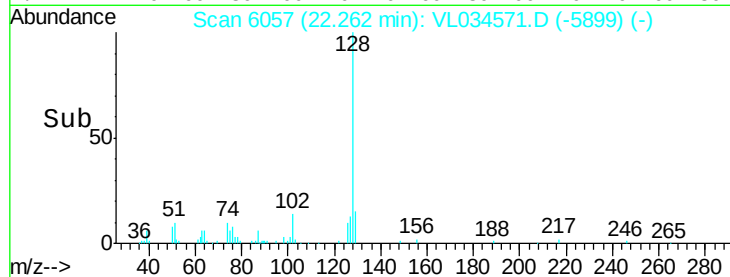
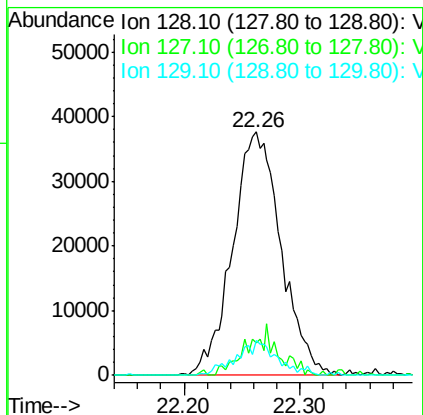
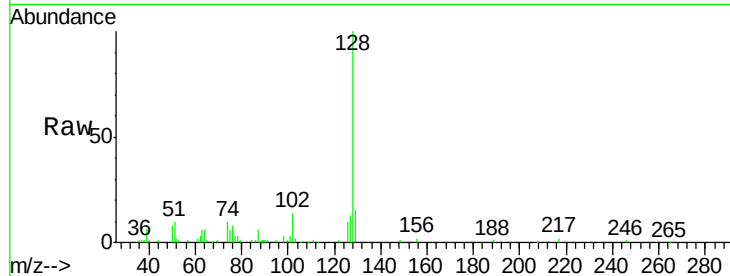
#79
Naphthalene
Concen: 0.459 ppbv
RT: 22.26 min Scan# 6057
Delta R.T. 0.01 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	14.6	8.7	13.1

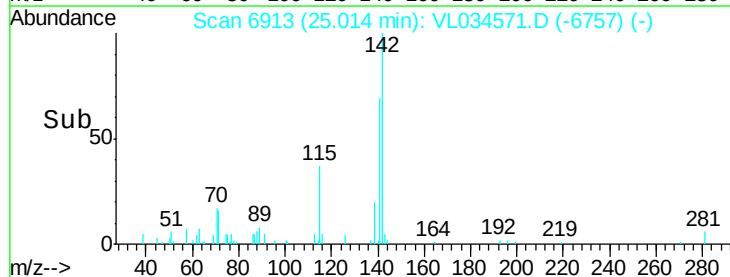
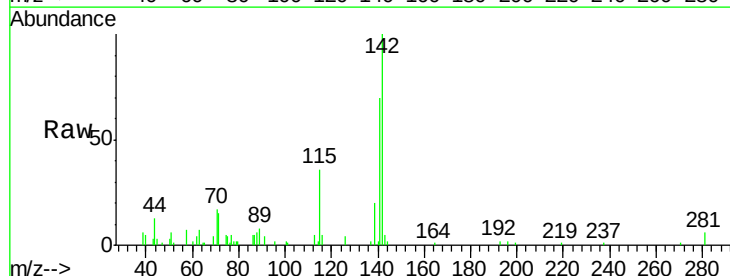
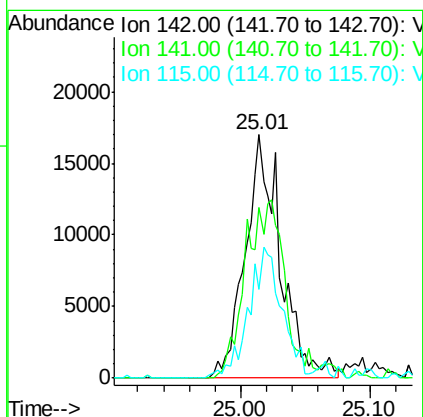
Manual Integrations
APPROVED

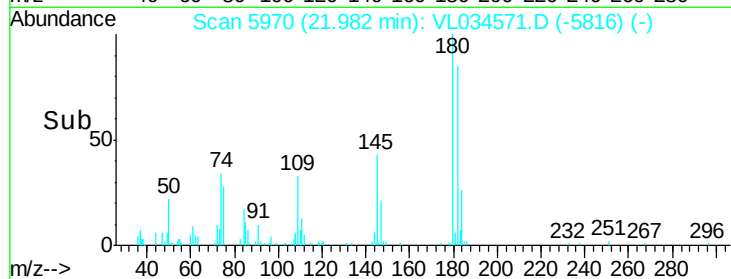
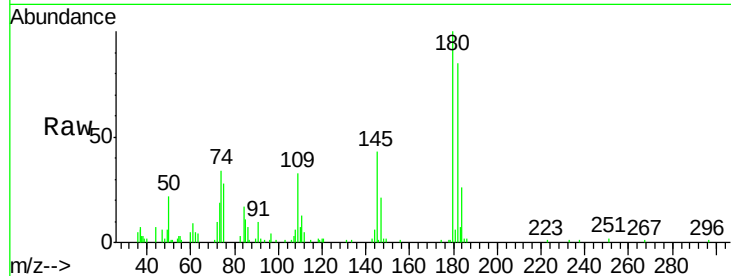
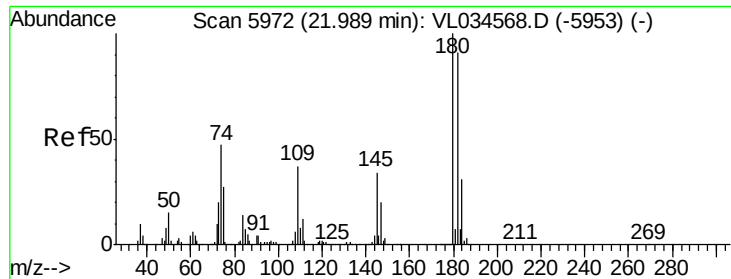
MMDadoda
1/31/2020 4:24:00 PM



#80
Naphthalene, 2-methyl-
Concen: 0.493 ppbv
RT: 25.01 min Scan# 6913
Delta R.T. -0.00 min
Lab File: VL034571.D
Acq: 30 Jan 2020 14:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.9	65.8	98.8
115	55.0	30.4	45.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.457 ppbv m
 RT: 21.98 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL034571.D
 Acq: 30 Jan 2020 14:01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	70710		
182	0.0	77.8	116.8#	
184	0.0	25.2	37.8#	

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 1/31/2020 4:24:00 PM

