

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035814.D
 Acq On : 3 Nov 2020 22:01
 Operator : SY/AP
 Sample : L4604-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:14:11 PM

Quant Time: Nov 04 05:46:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	992524	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4631990	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	4234440	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3002834	9.98	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	54664	0.293	ppbv	94
3) Chlorodifluoromethane	2.97	51	43948	0.370	ppbv	95
4) Chloromethane	3.12	50	24690	0.428	ppbv	96
9) Propene	3.00	41	33871	0.779	ppbv	85
11) Trichlorofluoromethane	3.93	101	61862	0.264	ppbv	97
13) Ethanol	3.59	45	112490	11.919	ppbv	96
15) Acetone	3.83	43	338115	3.186	ppbv	95
19) Isopropyl Alcohol	3.97	45	21845m	0.335	ppbv	
20) Methylene Chloride	4.32	84	623413	8.346	ppbv	97
26) Hexane	5.66	57	553756	4.803	ppbv #	44
34) 2-Butanone	5.23	43	21699	0.144	ppbv #	76
35) Carbon Tetrachloride	6.99	117	15103	0.061	ppbv #	83
36) Benzene	6.87	78	77636	0.225	ppbv #	94
38) Trichloroethene	7.81	130	28486	0.169	ppbv	92
44) 2,2,4-Trimethylpentane	7.85	57	69922	0.153	ppbv #	89
53) Toluene	9.78	91	433193	1.043	ppbv	98
59) m/p-Xylene	12.95	91	53021m	0.122	ppbv	

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

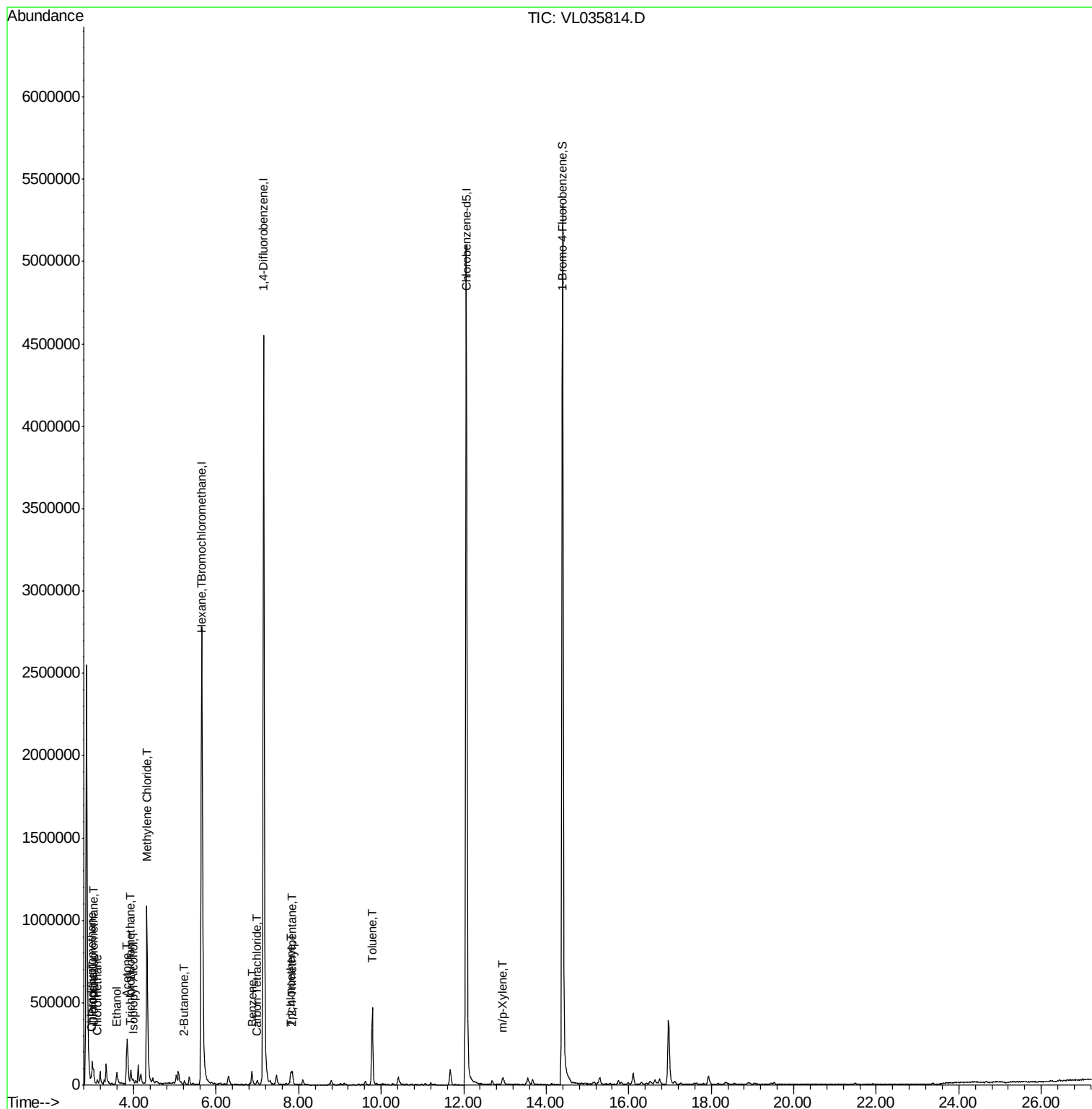
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110320\
Data File : VL035814.D
Acq On : 3 Nov 2020 22:01
Operator : SY/AP
Sample : L4604-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

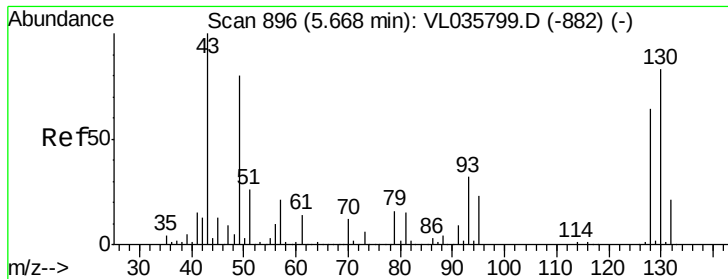
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

MMDadoda
11/5/2020 2:14:11 PM

Quant Time: Nov 04 05:46:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Instrument :

MSVOA_L

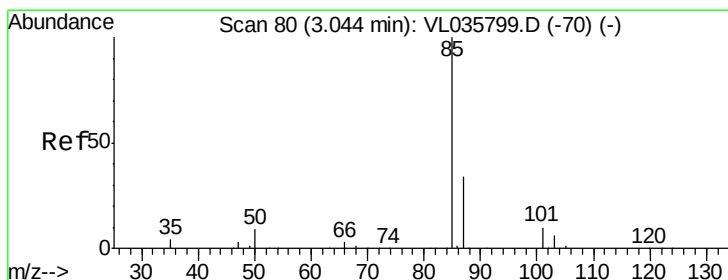
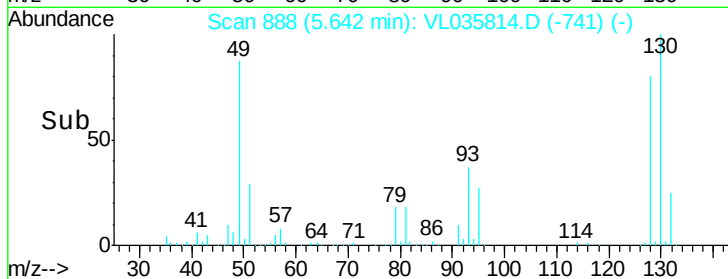
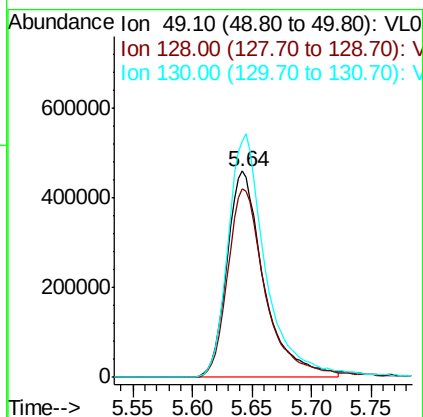
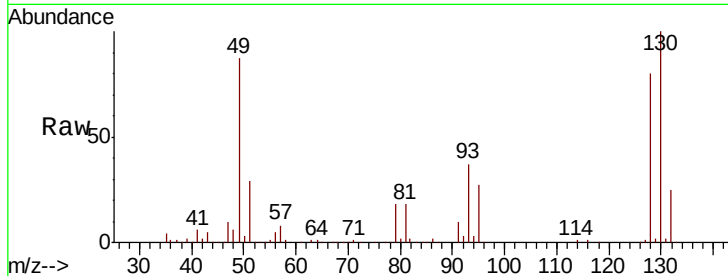
ClientSampleId :

IA1

Tot Ion:	49	Resp:	992524
Ion	Ratio	Lower	Upper
49	100		
128	95.1	41.5	124.6
130	122.3	53.7	161.1

Manual Integrations
APPROVED

MMDadoda
11/5/2020 2:14:11 PM



#2

Dichlorodifluoromethane

Concen: 0.293 ppbv

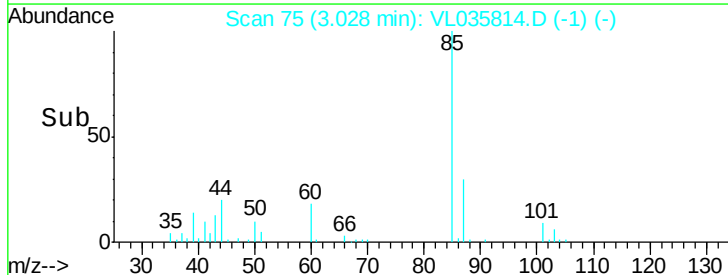
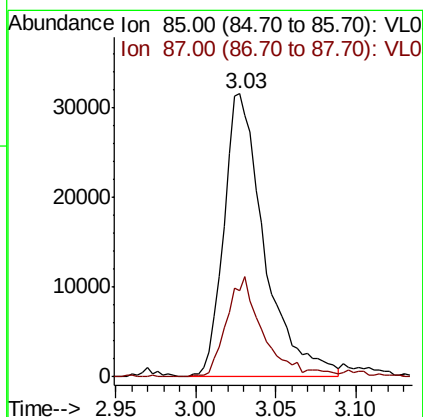
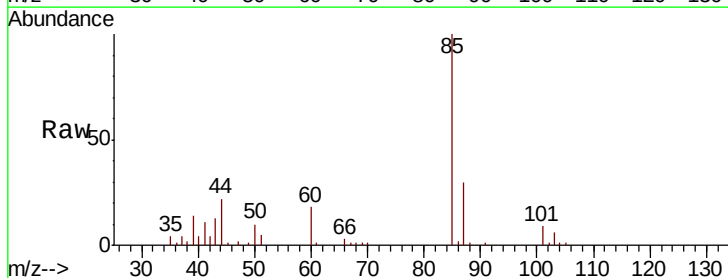
RT: 3.03 min Scan# 75

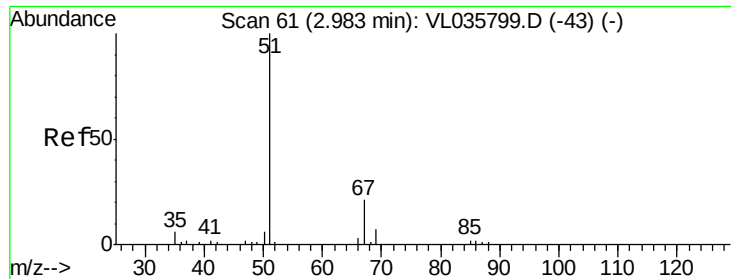
Delta R.T. -0.02 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Tgt Ion:	85	Resp:	54664
Ion	Ratio	Lower	Upper
85	100		
87	30.3	27.1	40.7





#3

Chlorodifluoromethane

Concen: 0.370 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 51 Resp: 43948

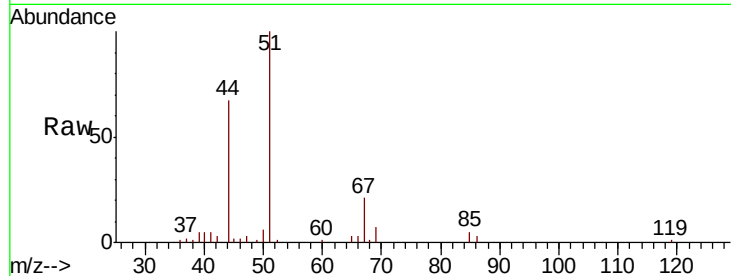
Ion Ratio Lower Upper

51 100

67 18.9 17.0 25.4

Manual Integrations
APPROVED

MMDadoda
11/5/2020 2:14:11 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

20000

15000

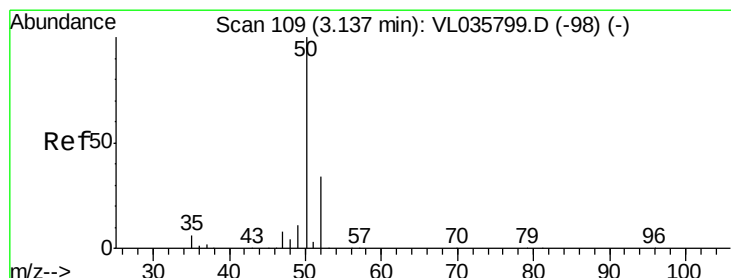
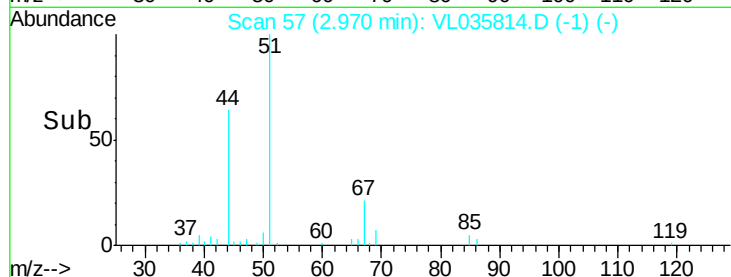
10000

5000

0

Time-->

2.90 3.00 3.10



#4

Chloromethane

Concen: 0.428 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL035814.D

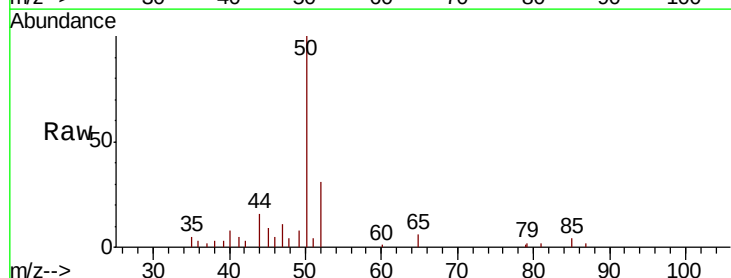
Acq: 3 Nov 2020 22:01

Tgt Ion: 50 Resp: 24690

Ion Ratio Lower Upper

50 100

52 31.4 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.12

15000

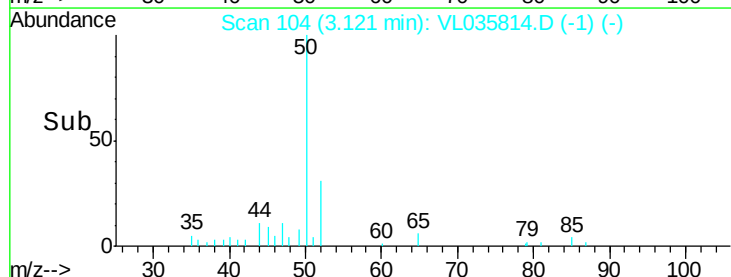
10000

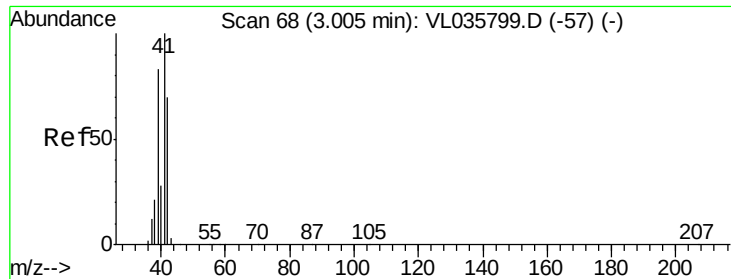
5000

0

Time-->

3.10 3.15





#9

Propene

Concen: 0.779 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 41 Resp: 33871

Ion Ratio Lower Upper

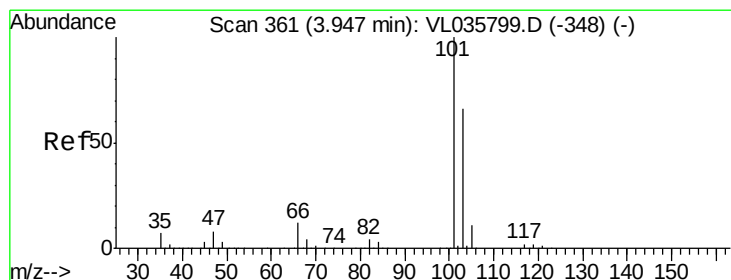
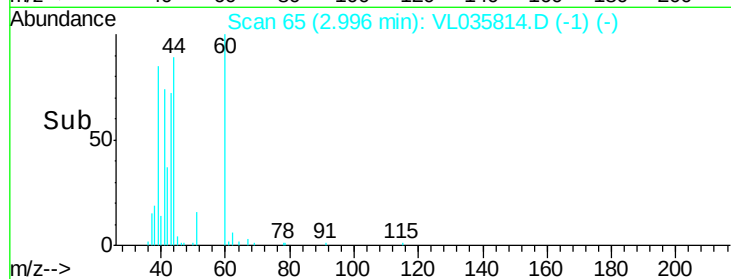
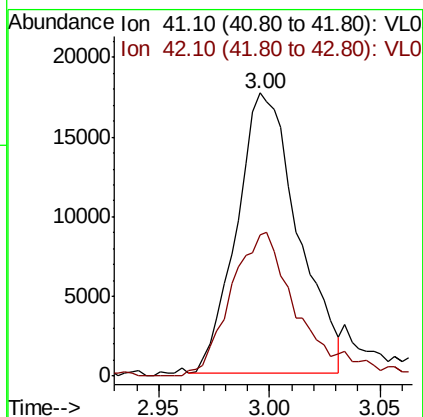
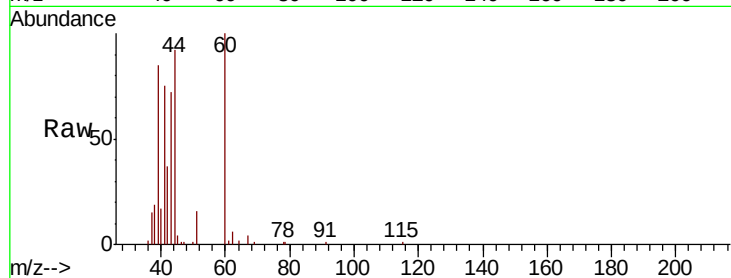
41 100

42 57.9 56.2 84.4

Manual Integrations
APPROVED

MMDadoda

11/5/2020 2:14:11 PM



#11

Trichlorofluoromethane

Concen: 0.264 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.02 min

Lab File: VL035814.D

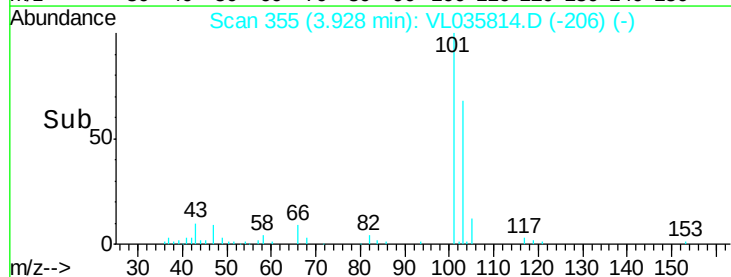
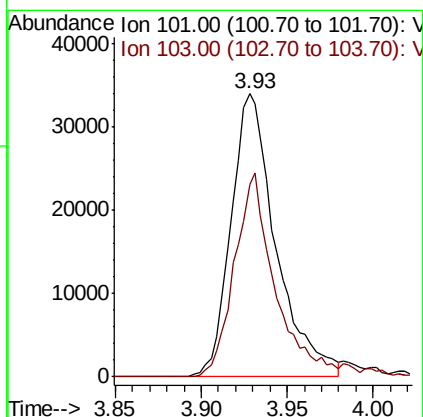
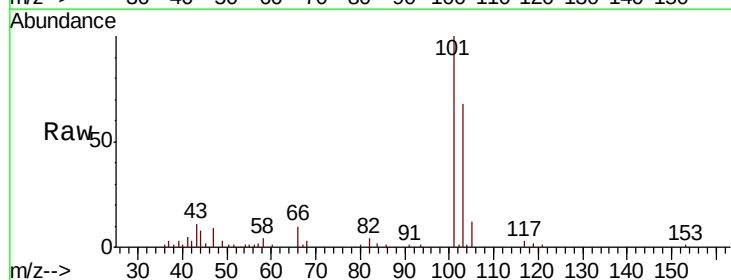
Acq: 3 Nov 2020 22:01

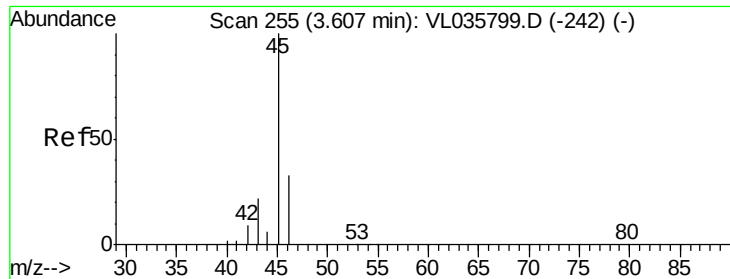
Tgt Ion: 101 Resp: 61862

Ion Ratio Lower Upper

101 100

103 68.2 53.0 79.4





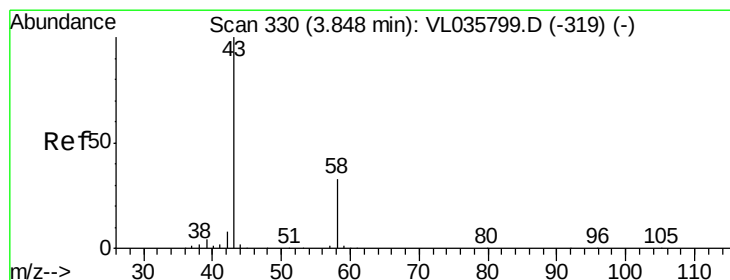
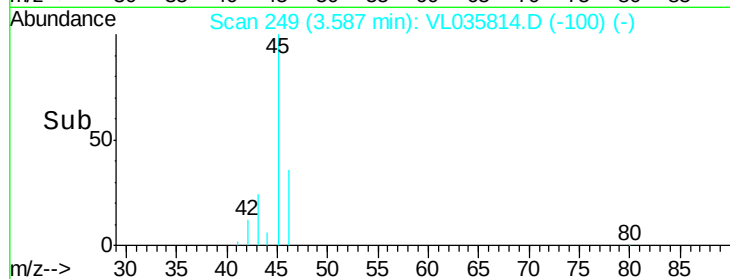
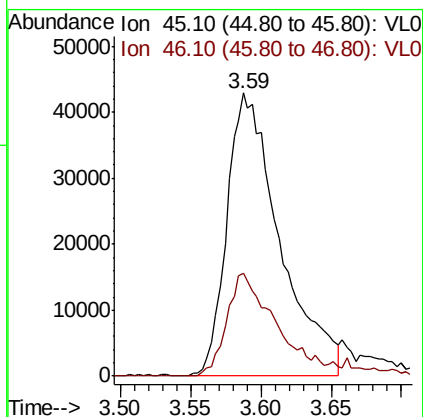
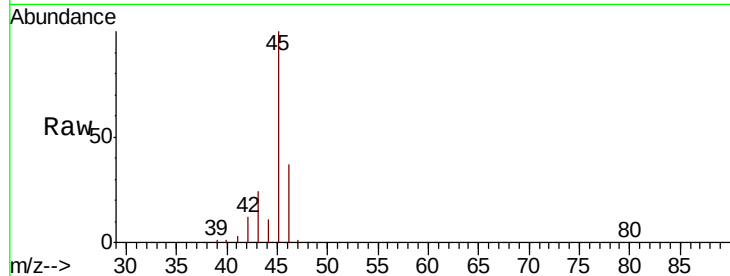
#13
Ethanol
Concen: 11.919 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	45	46	Ratio	Lower	Upper
112490	100	37.8		16.1	64.5

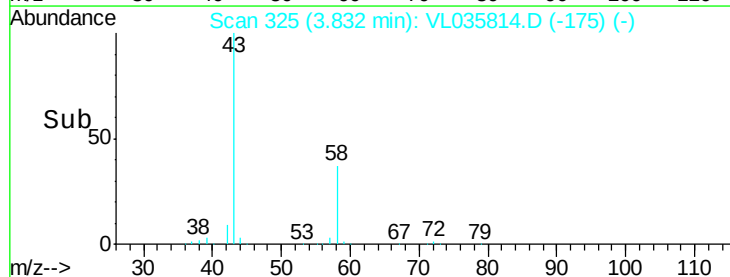
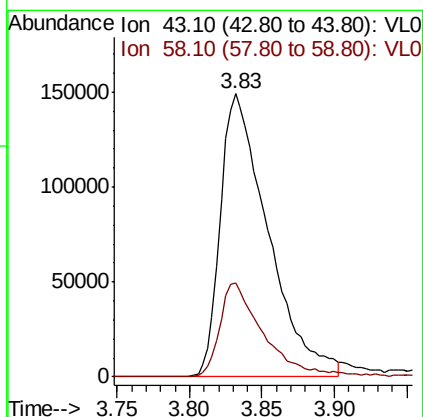
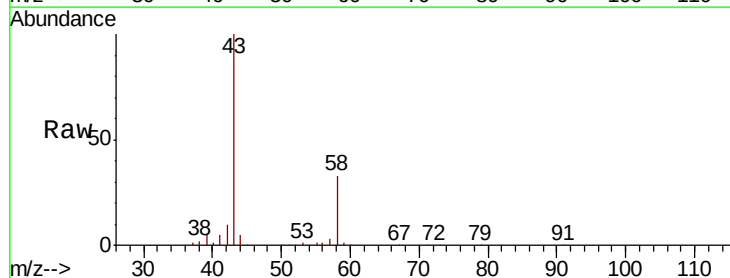
Manual Integrations
APPROVED

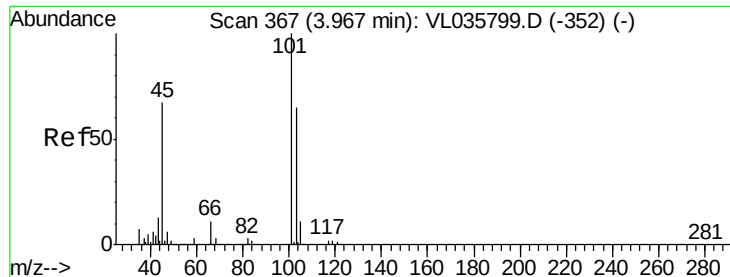
MMDadoda
11/5/2020 2:14:11 PM



#15
Acetone
Concen: 3.186 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Tgt Ion	43	58	Ratio	Lower	Upper
338115	100	31.3		27.5	41.3





#19

Isopropyl Alcohol

Concen: 0.335 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 45 Resp: 21845

Ion Ratio Lower Upper

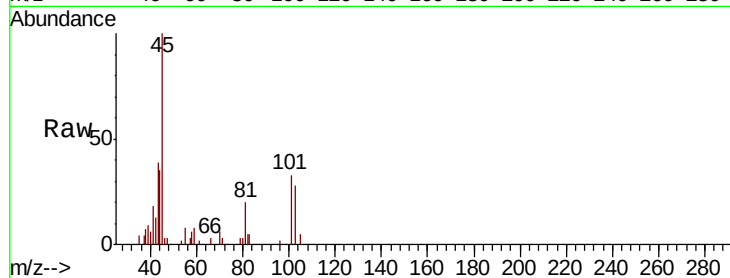
45 100

58 0.0 2.6 3.8#

Manual Integrations
APPROVED

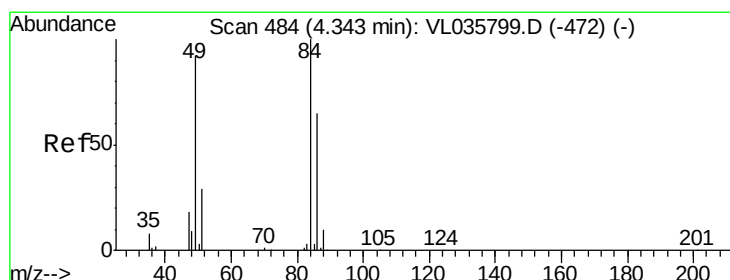
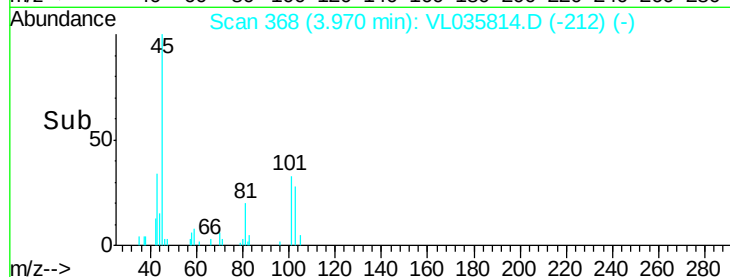
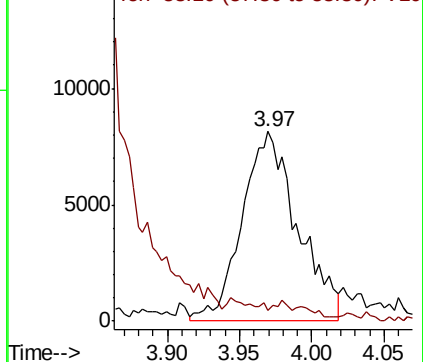
MMDadoda

11/5/2020 2:14:11 PM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.346 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL035814.D

Acq: 3 Nov 2020 22:01

Tgt Ion: 84 Resp: 623413

Ion Ratio Lower Upper

84 100

49 87.6 73.8 110.8

51 26.6 23.0 34.4

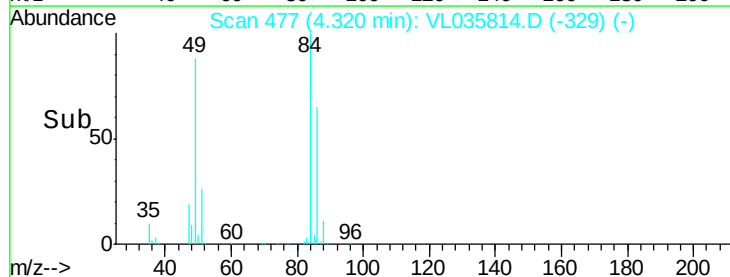
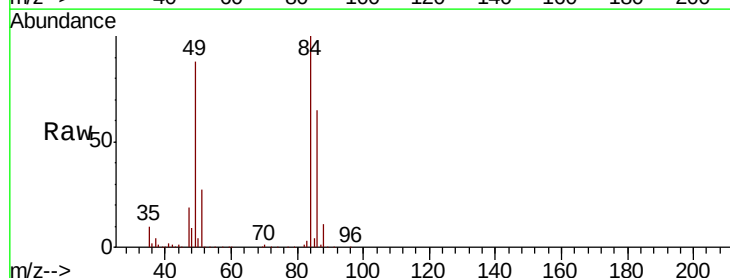
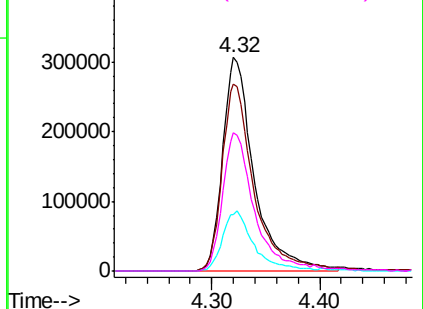
86 65.0 52.1 78.1

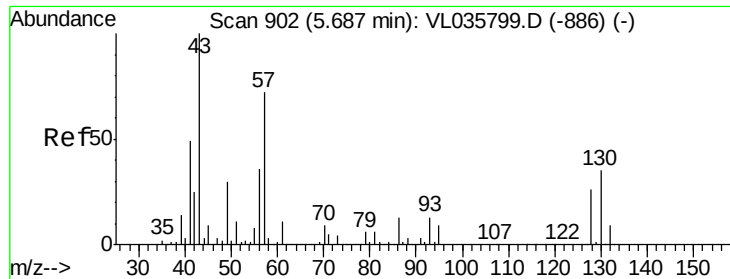
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





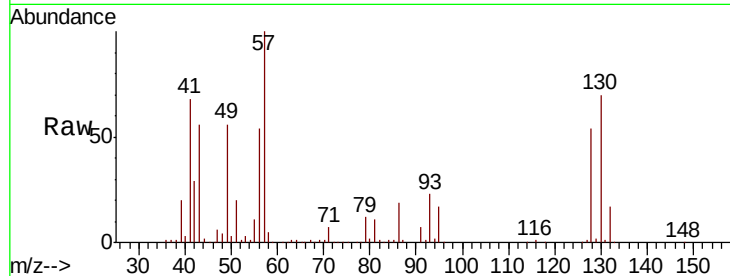
#26
Hexane
Concen: 4.803 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	68.9	58.9	88.3
43	55.6	150.2	225.2#
56	54.0	42.4	63.6

Manual Integrations
APPROVED

MMDadoda
11/5/2020 2:14:11 PM



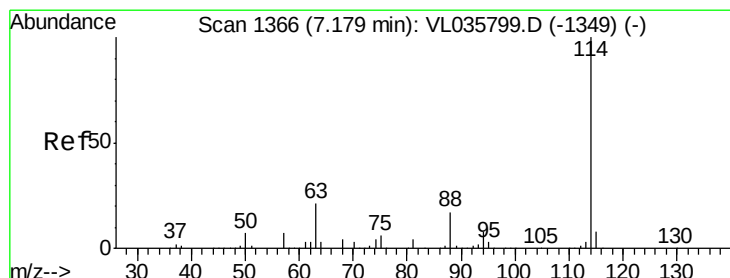
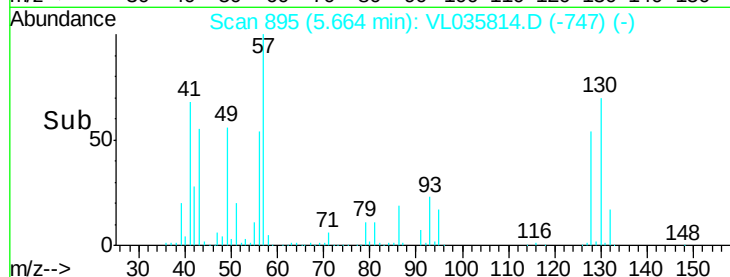
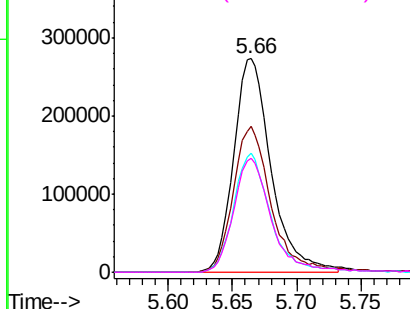
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

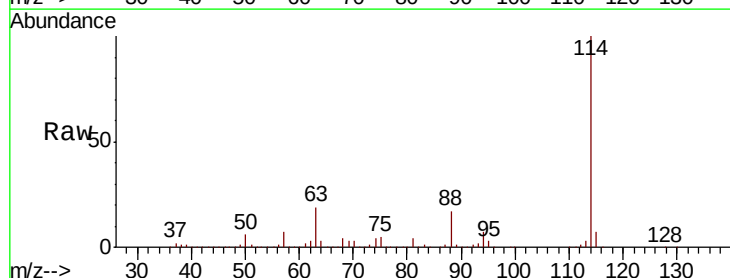
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.9	16.1	24.1
88	16.4	13.7	20.5

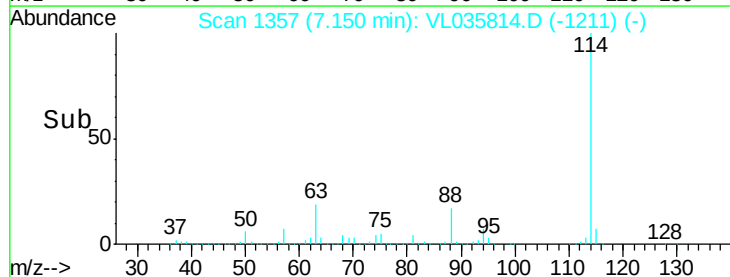
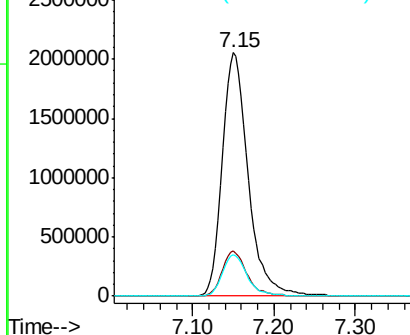


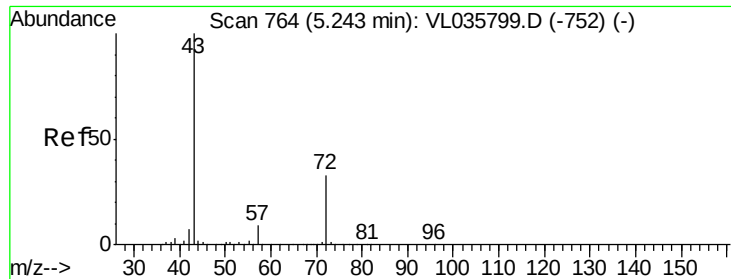
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





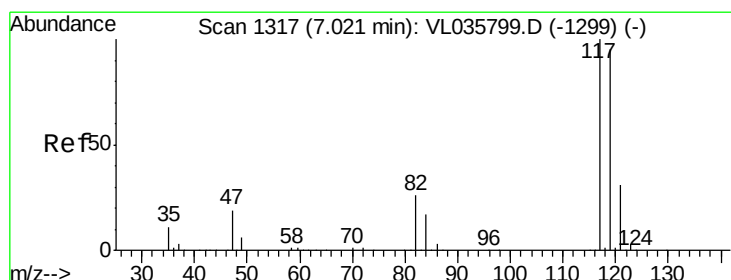
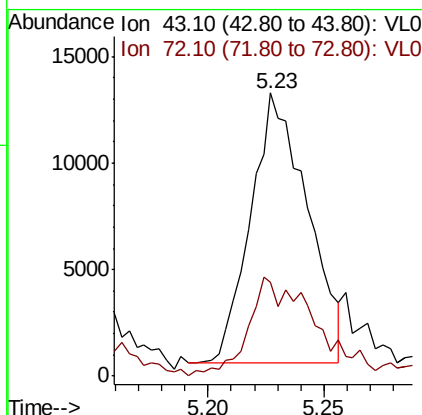
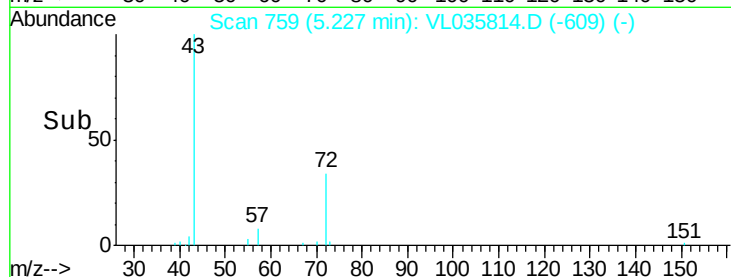
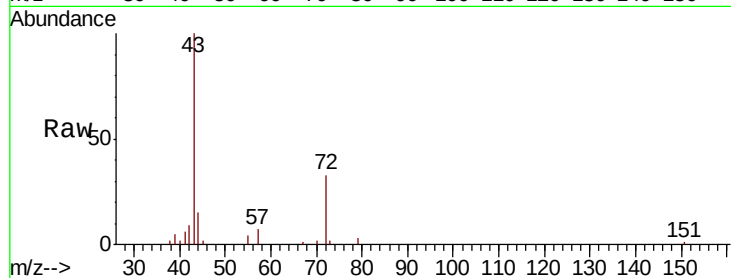
#34
2-Butanone
Concen: 0.144 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.02 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 43 Resp: 21699
Ion Ratio Lower Upper
43 100
72 46.5 26.5 39.7#

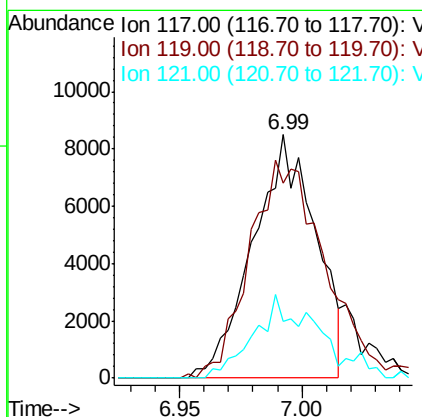
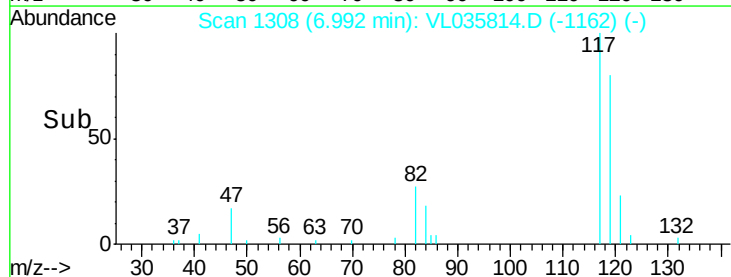
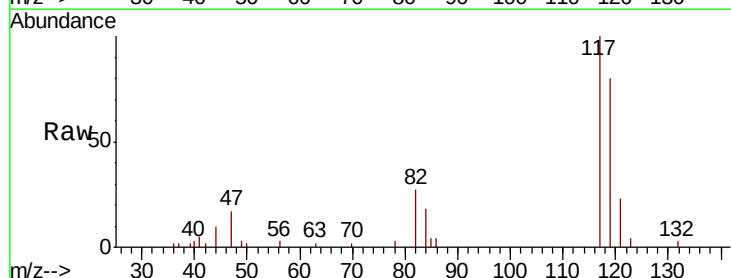
Manual Integrations
APPROVED

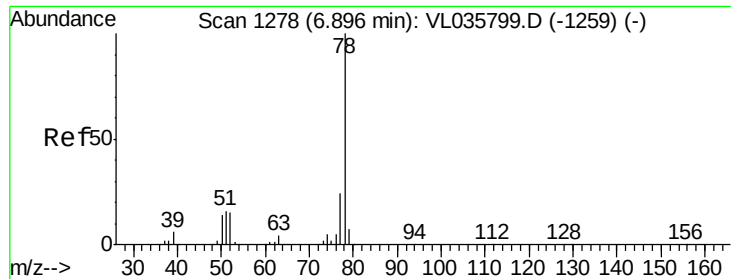
MMDadoda
11/5/2020 2:14:11 PM



#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 6.99 min Scan# 1308
Delta R.T. -0.03 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Tgt Ion: 117 Resp: 15103
Ion Ratio Lower Upper
117 100
119 78.1 75.6 113.4
121 23.0 25.1 37.7#





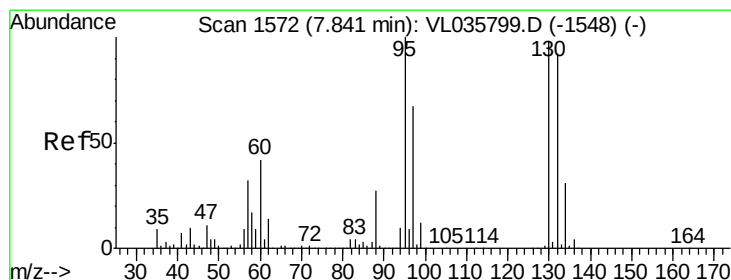
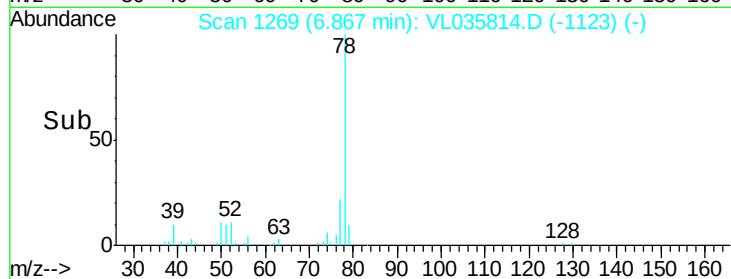
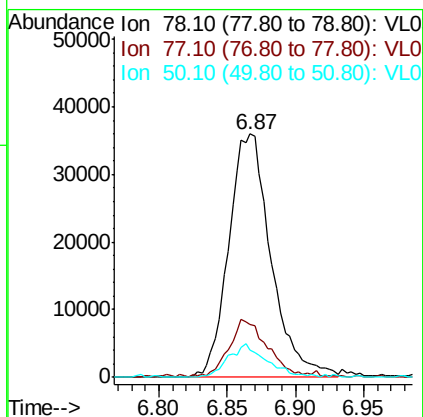
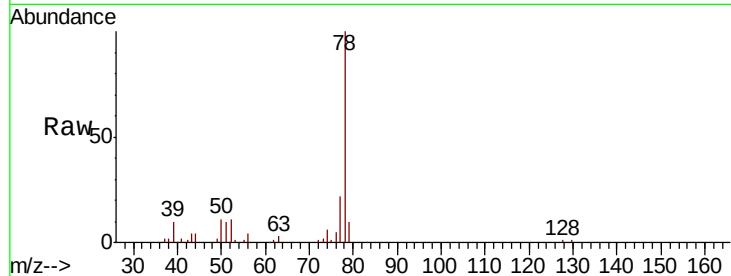
#36
Benzene
Concen: 0.225 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.03 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.9	19.3	28.9
50	11.3	11.4	17.2#

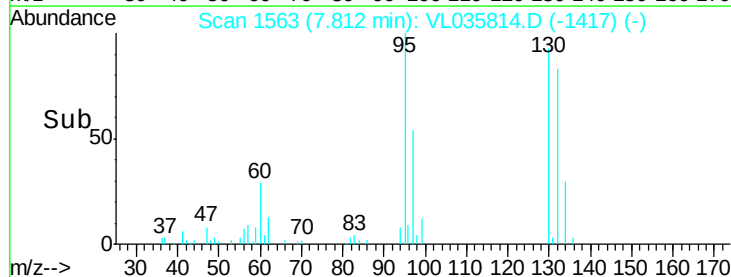
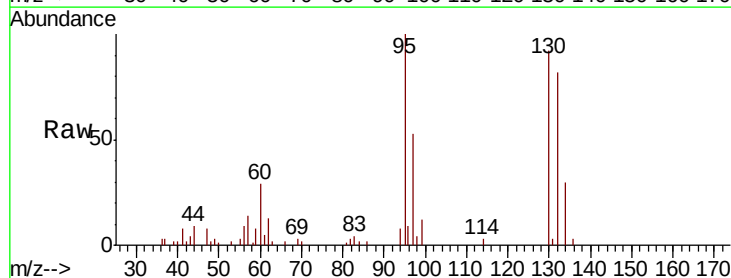
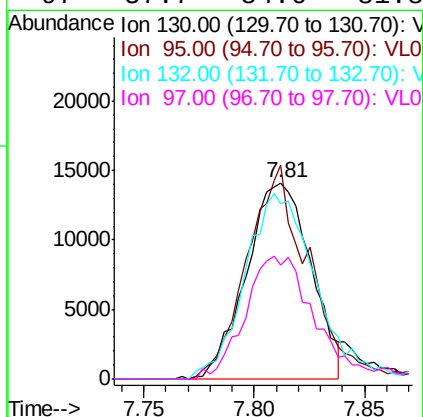
Manual Integrations
APPROVED

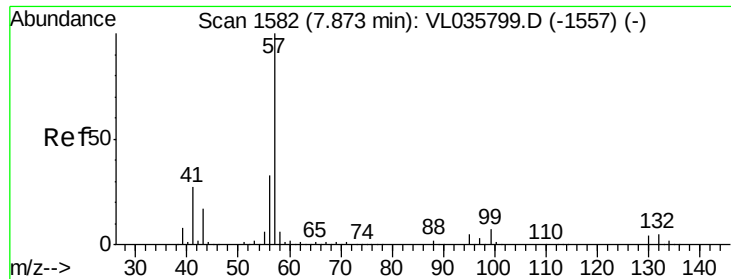
MMDadoda
11/5/2020 2:14:11 PM



#38
Trichloroethene
Concen: 0.169 ppbv
RT: 7.81 min Scan# 1563
Delta R.T. -0.03 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.7	81.6	122.4
132	89.4	75.1	112.7
97	57.7	54.6	81.8





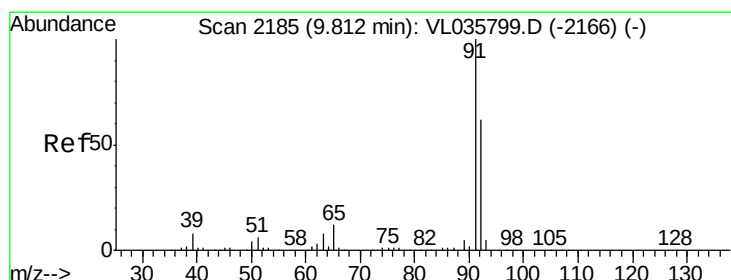
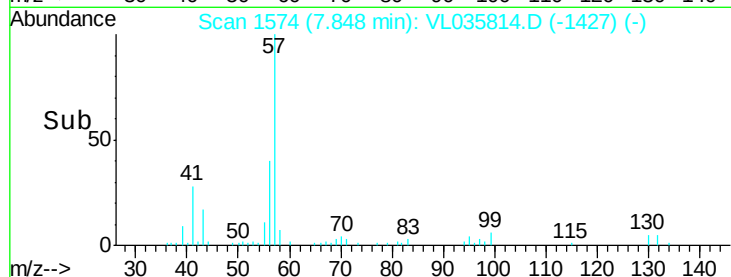
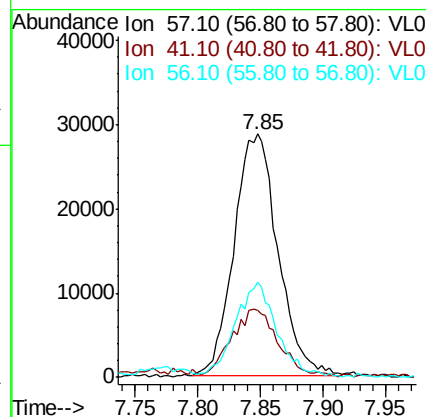
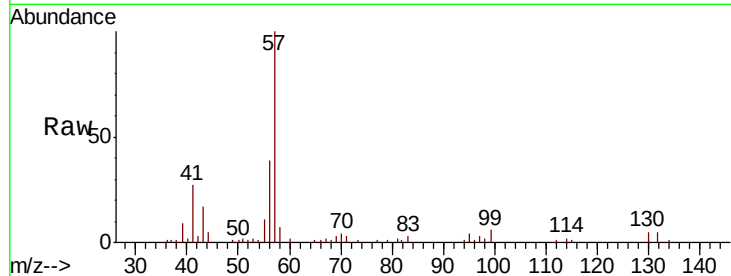
#44
 2,2,4-Trimethylpentane
 Concen: 0.153 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.03 min
 Lab File: VL035814.D
 Acq: 3 Nov 2020 22:01

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	31.8	21.0	31.4#
56	38.3	25.4	38.0#

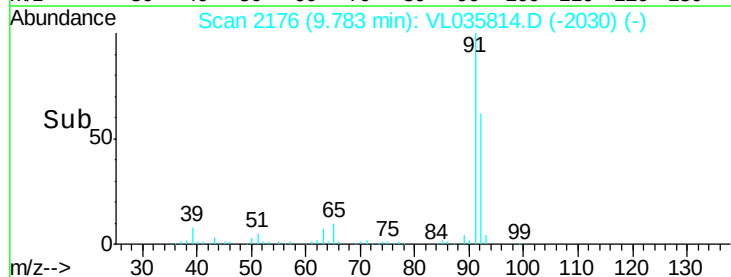
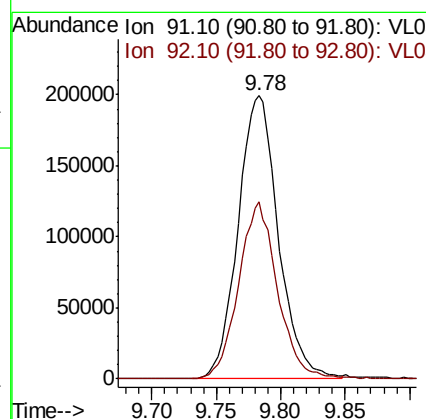
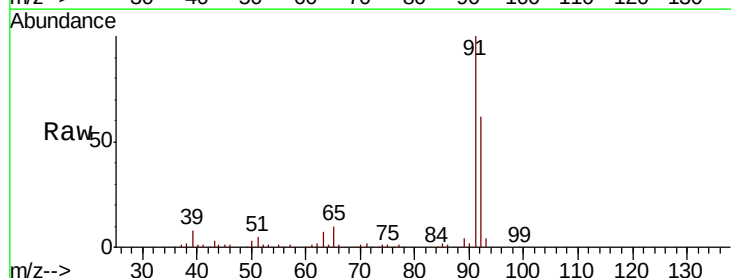
Manual Integrations
 APPROVED

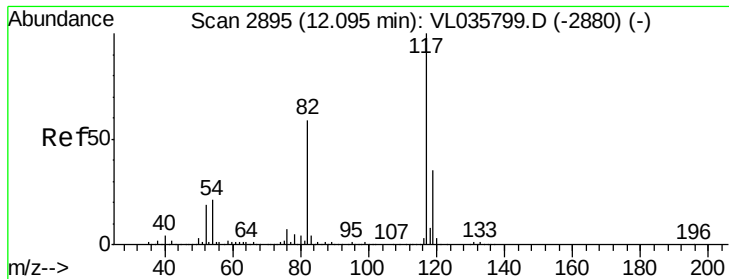
MMDadoda
 11/5/2020 2:14:11 PM



#53
 Toluene
 Concen: 1.043 ppbv
 RT: 9.78 min Scan# 2176
 Delta R.T. -0.03 min
 Lab File: VL035814.D
 Acq: 3 Nov 2020 22:01

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.8	49.8	74.6





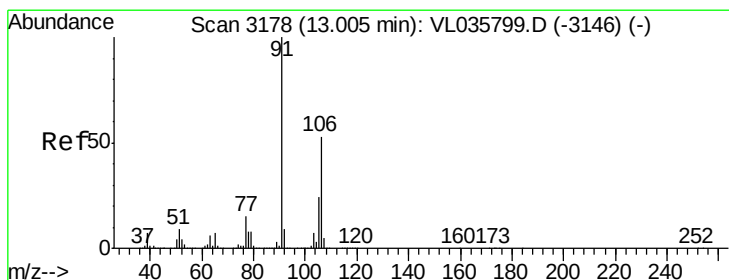
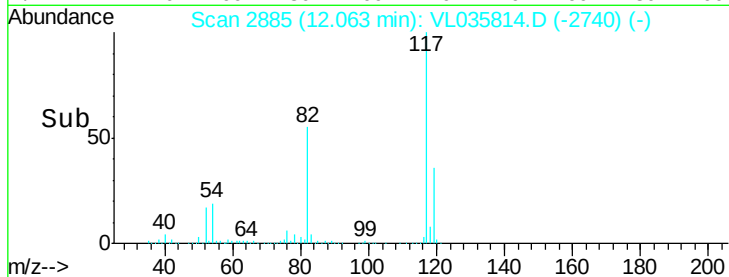
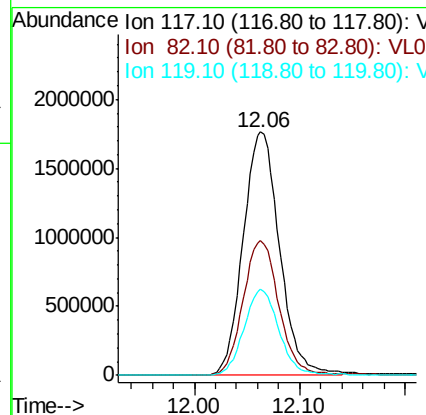
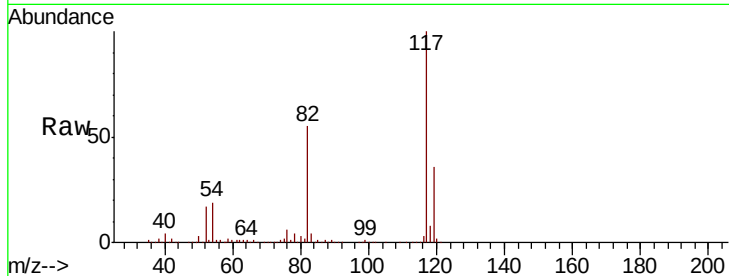
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2885
Delta R.T. -0.03 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	50.6	76.0
119	34.3	52.6	78.8

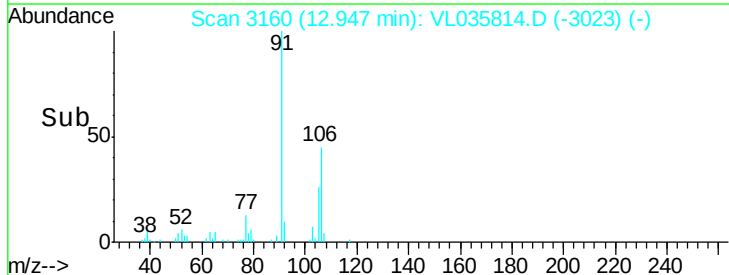
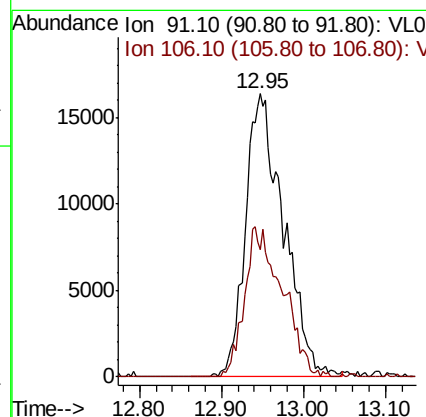
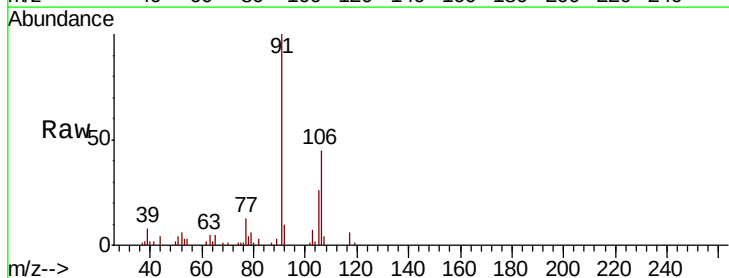
Manual Integrations
APPROVED

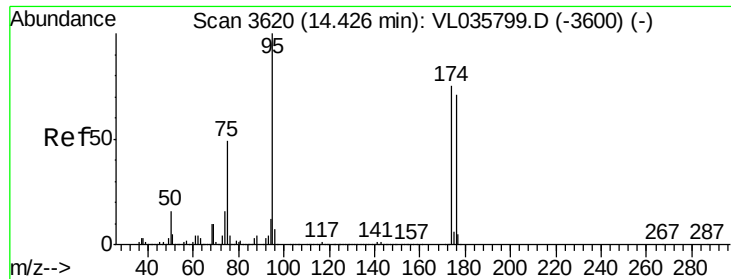
MMDadoda
11/5/2020 2:14:11 PM



#59
m/p-Xylene
Concen: 0.122 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035814.D
Acq: 3 Nov 2020 22:01

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	39.5	59.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.981 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.03 min
 Lab File: VL035814.D
 Acq: 3 Nov 2020 22:01

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Lower	Upper
95	100		
174	79.4	59.8	89.6
175	5.5	4.3	6.5

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:14:11 PM

