

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091420\
 Data File : VL035623.D
 Acq On : 15 Sep 2020 7:19
 Operator : SY/AP
 Sample : L3983-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 5:41:15 PM

Quant Time: Sep 15 16:27:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	928909	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4027136	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3969541	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2959299	10.50	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	54723	0.340	ppbv	95
3) Chlorodifluoromethane	2.97	51	57846m	0.563	ppbv	
4) Chloromethane	3.12	50	44898	0.816	ppbv	99
9) Propene	3.00	41	29684	0.749	ppbv #	82
11) Trichlorofluoromethane	3.93	101	58648	0.250	ppbv	94
13) Ethanol	3.59	45	89940	9.159	ppbv	96
15) Acetone	3.83	43	690435	6.739	ppbv #	84
19) Isopropyl Alcohol	3.96	45	59106	0.967	ppbv #	93
20) Methylene Chloride	4.32	84	168276	2.205	ppbv	96
26) Hexane	5.67	57	52650	0.513	ppbv #	52
31) cis-1,2-Dichloroethene	5.53	61	20545	0.195	ppbv	93
34) 2-Butanone	5.23	43	111874	0.936	ppbv	99
35) Carbon Tetrachloride	7.00	117	9987m	0.049	ppbv	
38) Trichloroethene	7.82	130	77221	0.510	ppbv	97
44) 2,2,4-Trimethylpentane	7.85	57	56540	0.165	ppbv #	85
52) Tetrachloroethene	11.21	164	547257	3.594	ppbv	99

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

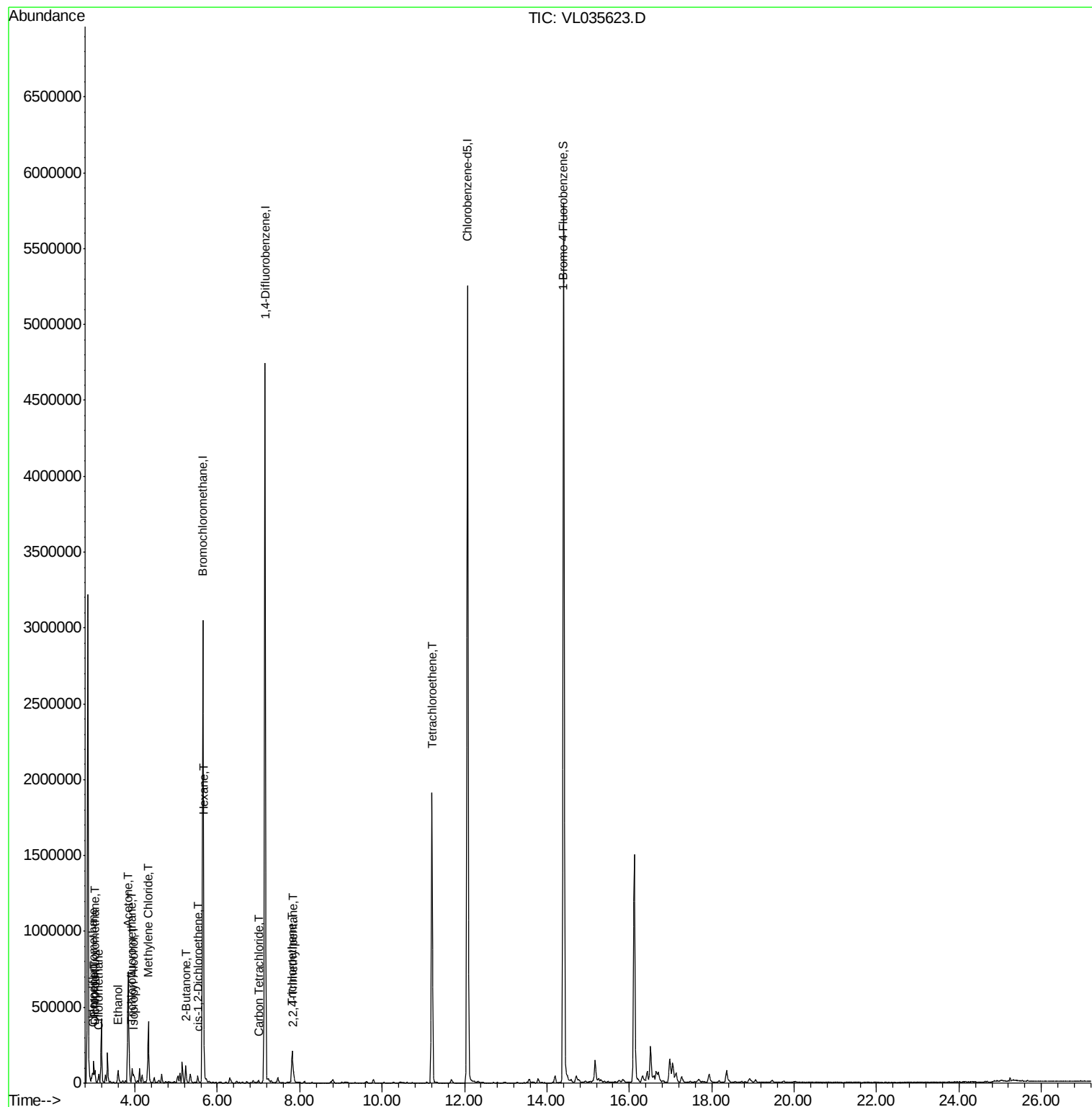
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091420\
Data File : VL035623.D
Acq On : 15 Sep 2020 7:19
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MSVOA_L
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SV-11

Manual Integrations
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9/17/2020 5:41:15 PM

Quant Time: Sep 15 16:27:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035623.D

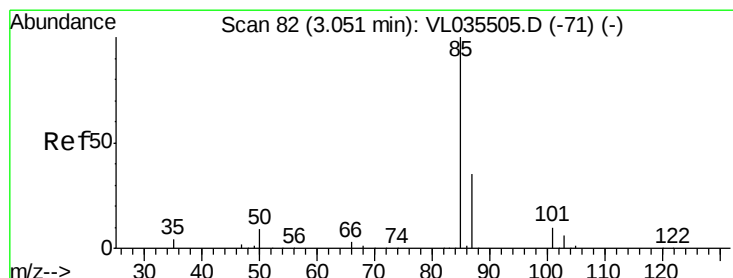
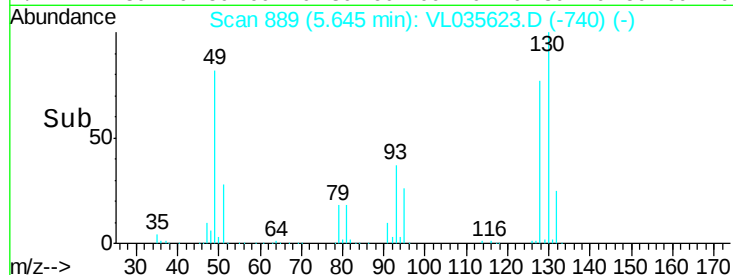
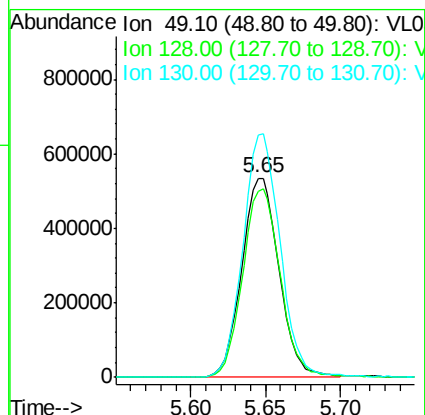
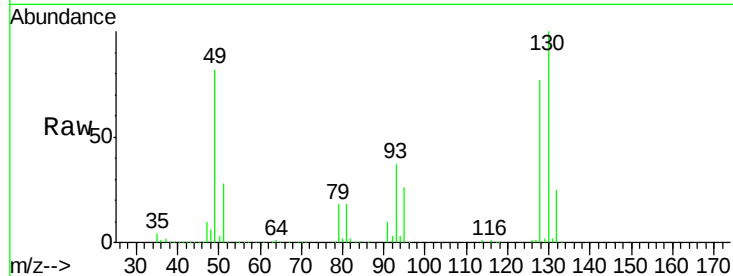
Acq: 15 Sep 2020 7:19

Instrument :
MSVOA_L
ClientSampled :
SV-11

Tot Ion	Ratio	Lower	Upper
49	100		
128	96.0	50.0	150.1
130	122.4	64.4	193.2

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#2

Dichlorodifluoromethane

Concen: 0.340 ppbv

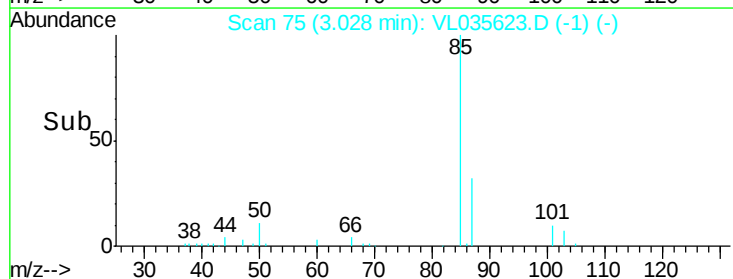
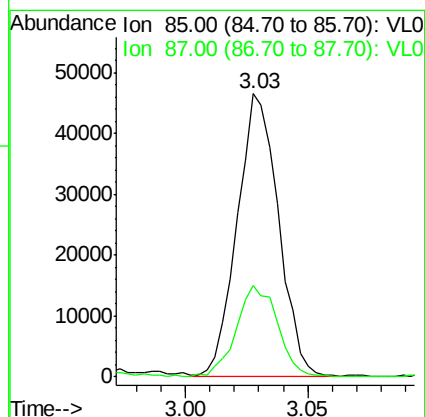
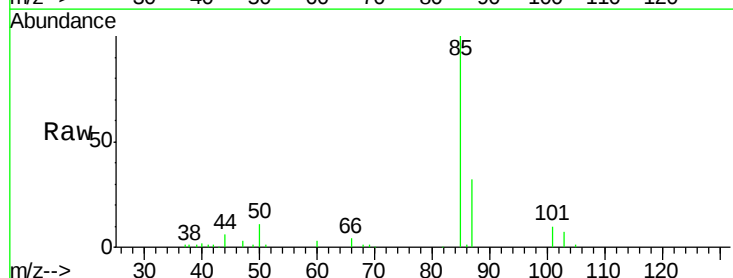
RT: 3.03 min Scan# 75

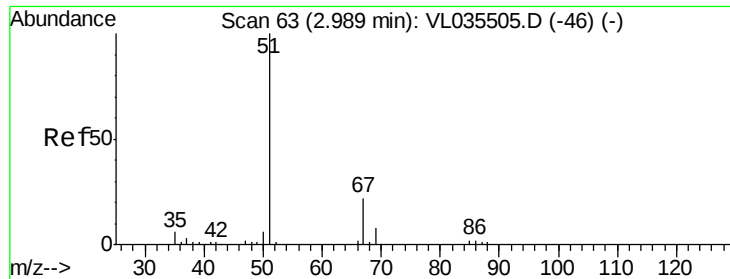
Delta R.T. -0.01 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	28.0	42.0





#3

Chlorodifluoromethane

Concen: 0.563 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion: 51 Resp: 57846

Ion Ratio Lower Upper

51 100

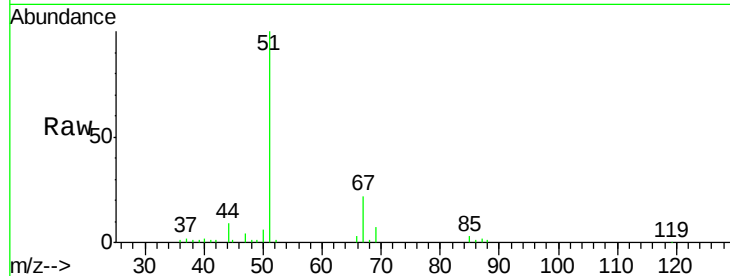
67 21.4 17.8 26.8

Manual Integrations

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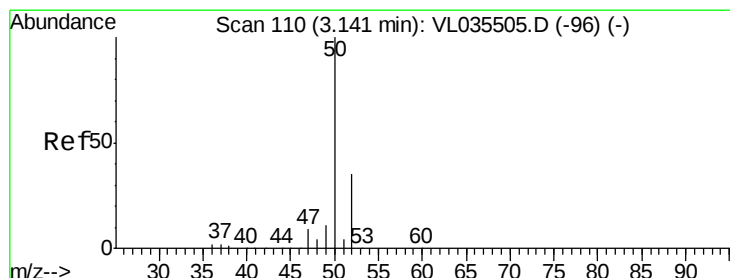
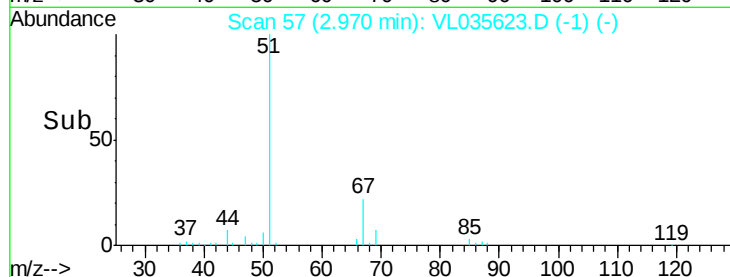
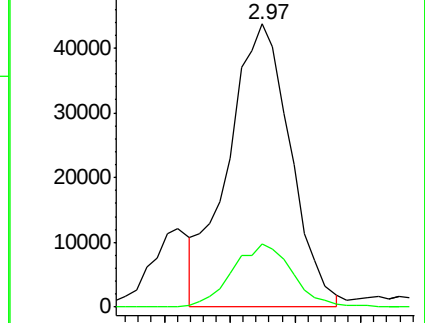
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.816 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL035623.D

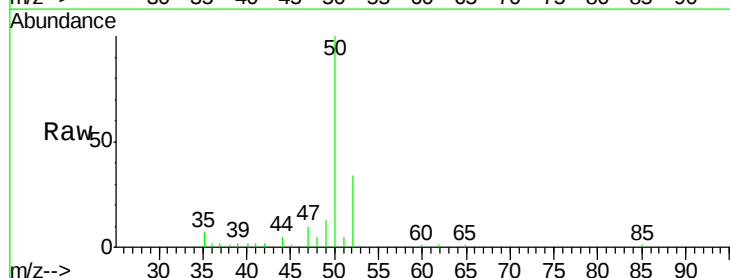
Acq: 15 Sep 2020 7:19

Tgt Ion: 50 Resp: 44898

Ion Ratio Lower Upper

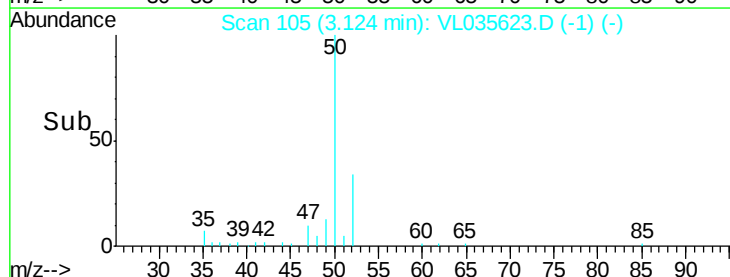
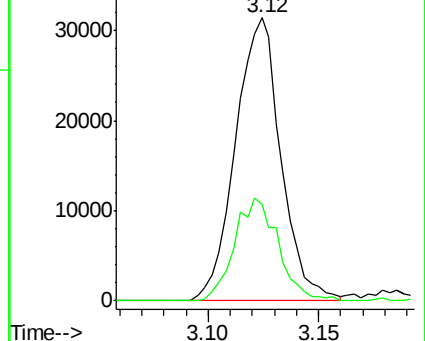
50 100

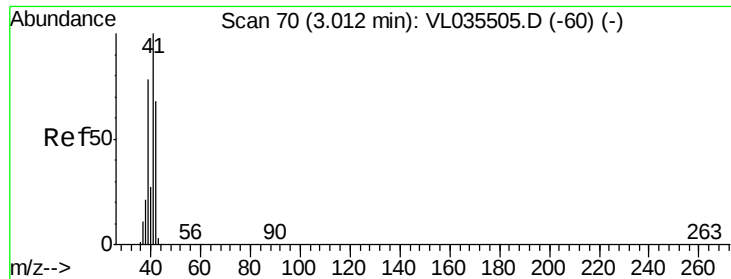
52 34.3 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.749 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion: 41 Resp: 29684

Ion Ratio Lower Upper

41 100

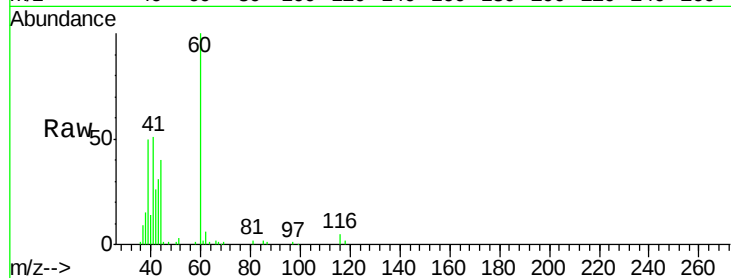
42 55.4 56.3 84.5#

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.00

20000

15000

10000

5000

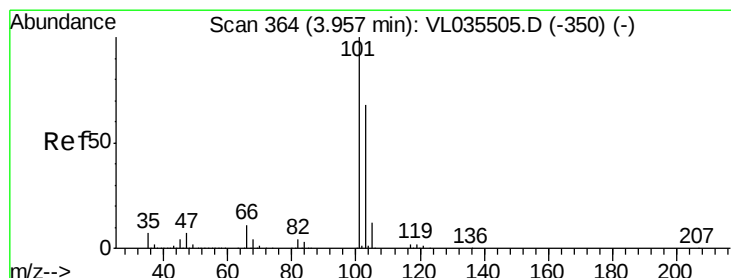
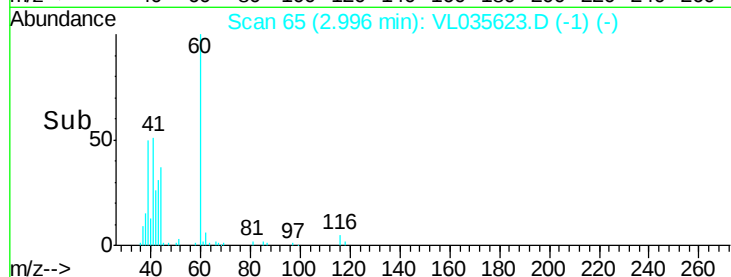
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Time-->

2.95

3.00

3.05



#11

Trichlorofluoromethane

Concen: 0.250 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.01 min

Lab File: VL035623.D

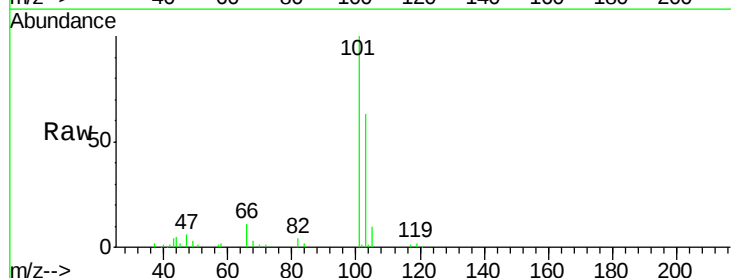
Acq: 15 Sep 2020 7:19

Tgt Ion: 101 Resp: 58648

Ion Ratio Lower Upper

101 100

103 63.0 54.5 81.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

50000

40000

30000

20000

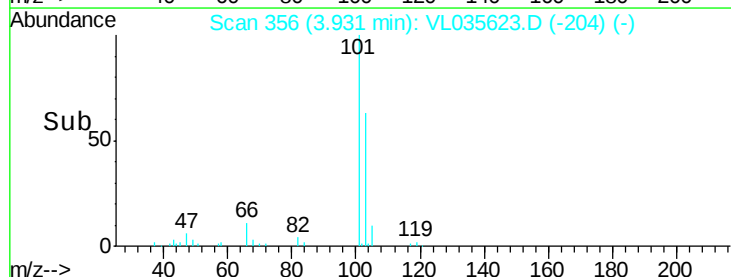
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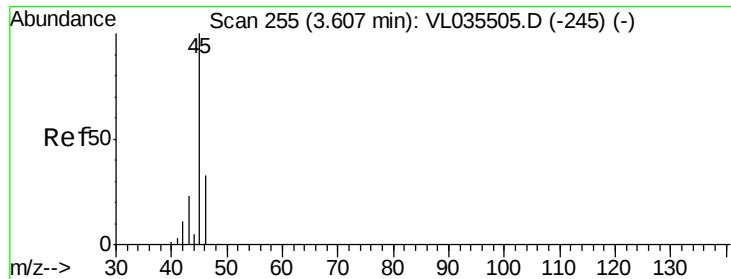
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Time-->

3.90

3.95





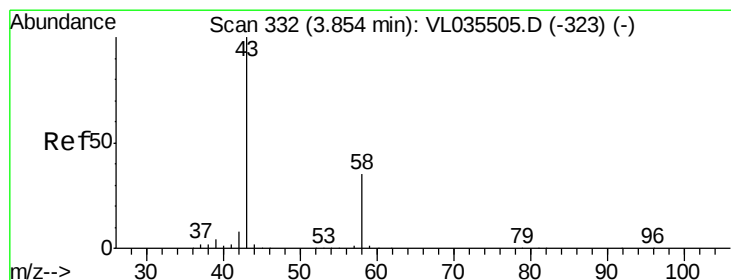
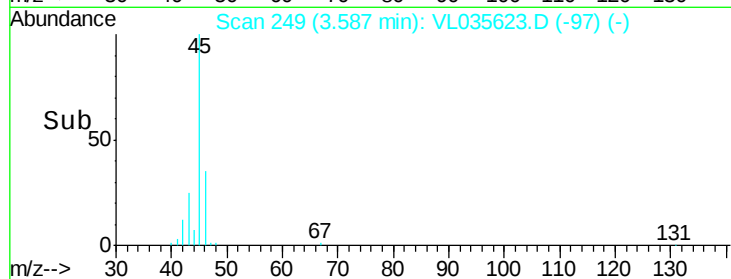
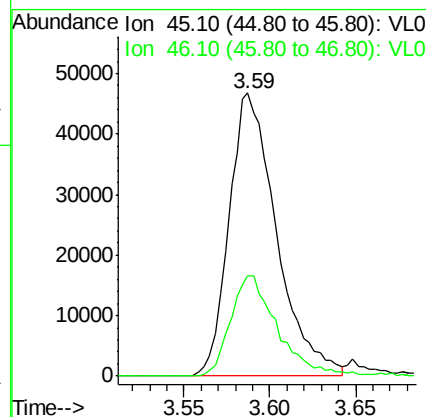
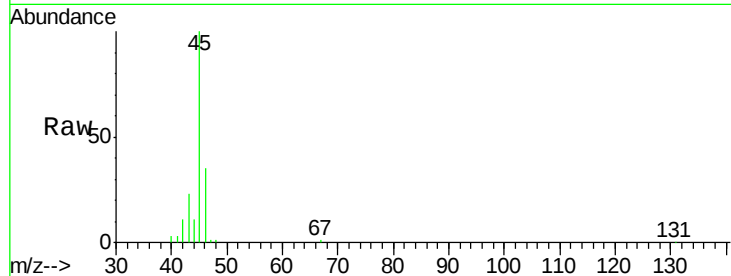
#13
Ethanol
Concen: 9.159 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.01 min
Lab File: VL035623.D
Acq: 15 Sep 2020 7:19

Instrument :
MSVOA_L
ClientSampled :
SV-11

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	89940				
Ion	100	35.7		15.2	60.6

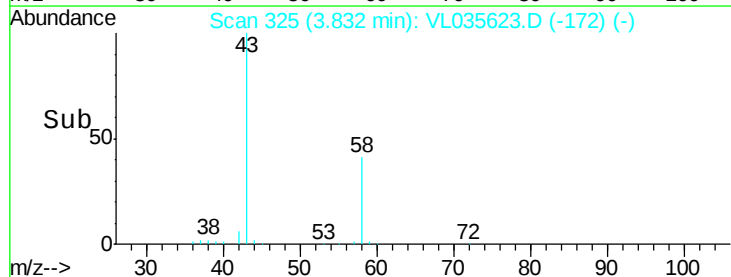
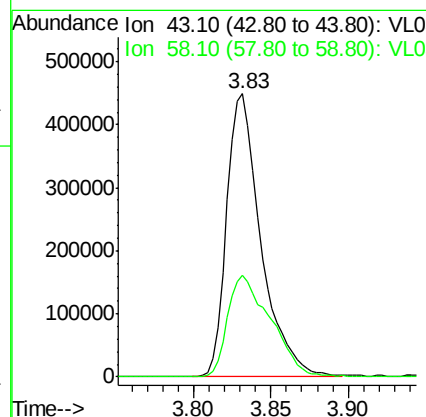
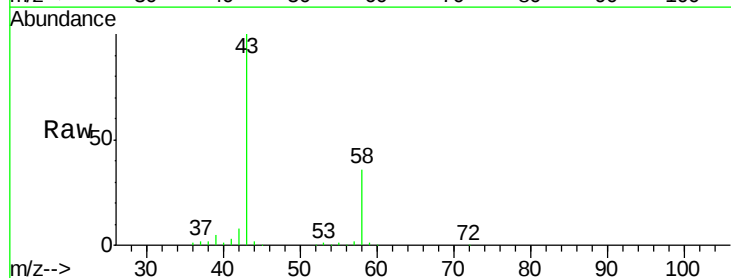
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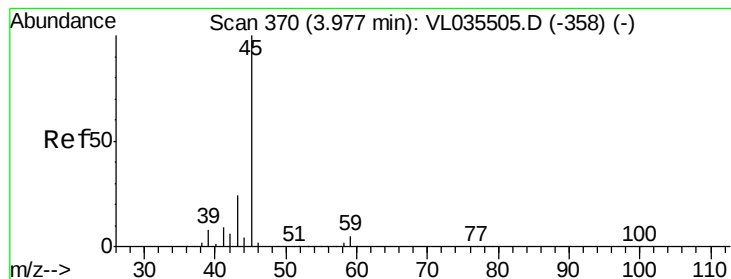
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#15
Acetone
Concen: 6.739 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL035623.D
Acq: 15 Sep 2020 7:19

Tgt Ion	43	58	Ratio	Lower	Upper
Resp:	690435				
Ion	100	45.0		28.4	42.6#





#19

Isopropyl Alcohol

Concen: 0.967 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion: 45 Resp: 59106

Ion Ratio Lower Upper

45 100

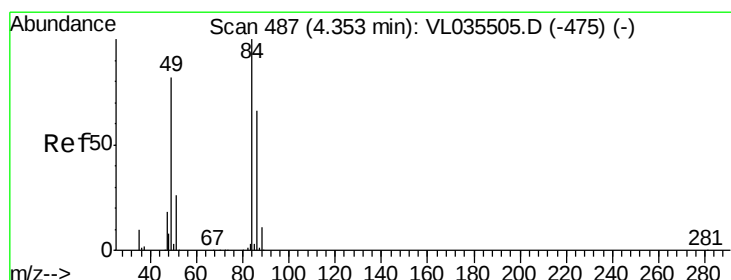
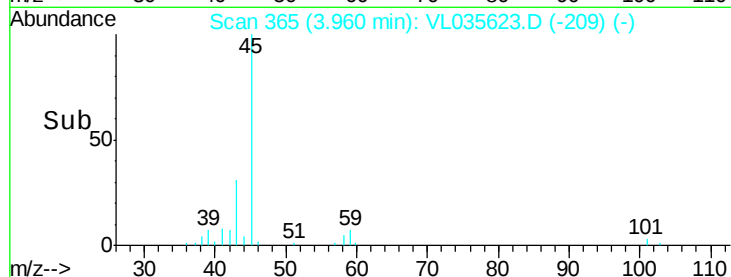
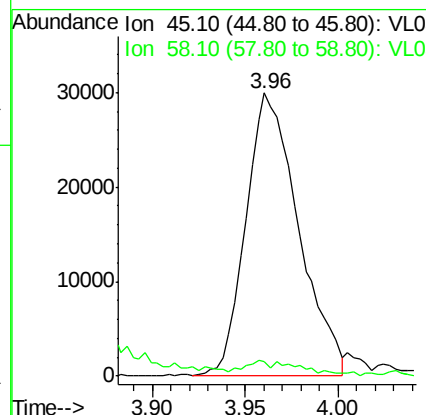
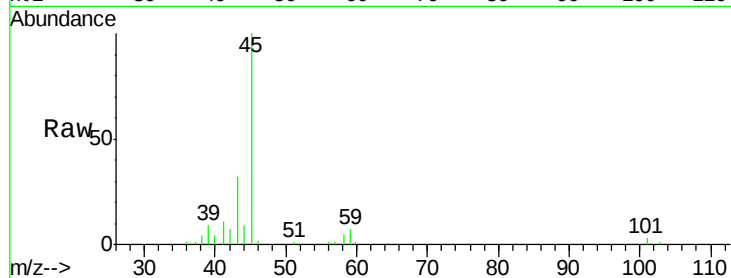
58 0.0 2.0 3.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 2.205 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.01 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Tgt Ion: 84 Resp: 168276

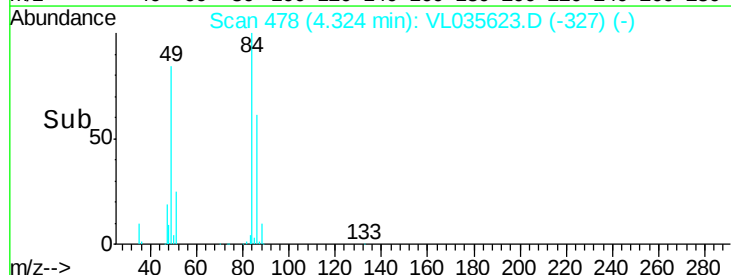
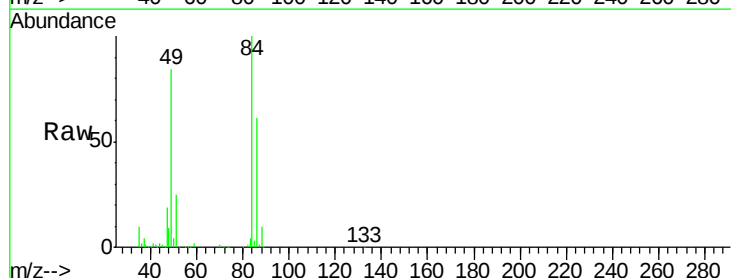
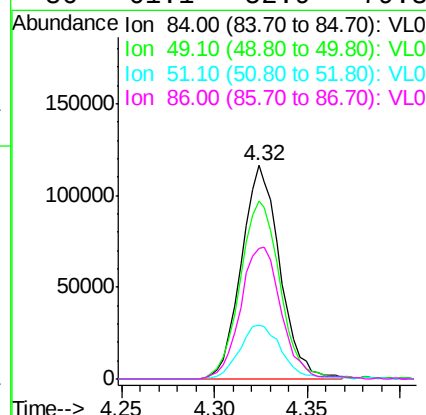
Ion Ratio Lower Upper

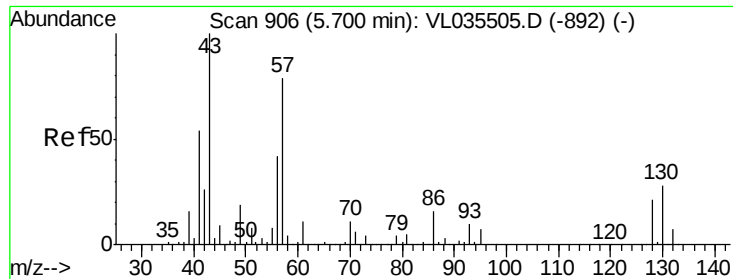
84 100

49 83.6 65.4 98.0

51 25.4 21.5 32.3

86 61.1 52.9 79.3





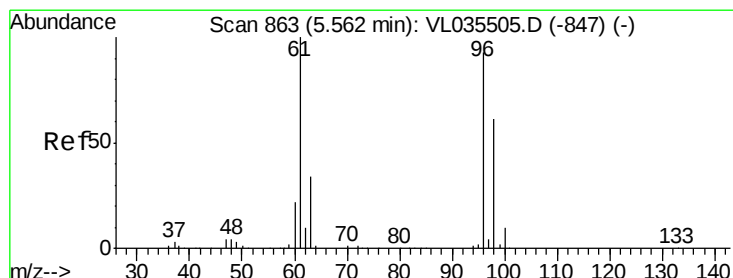
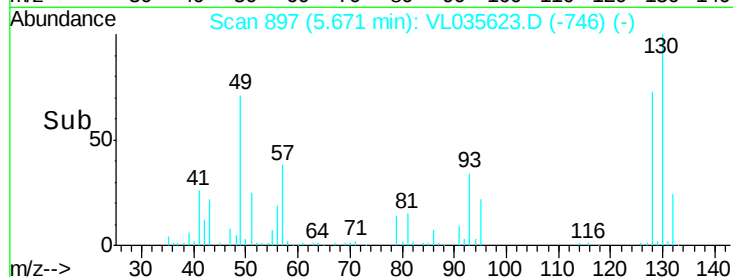
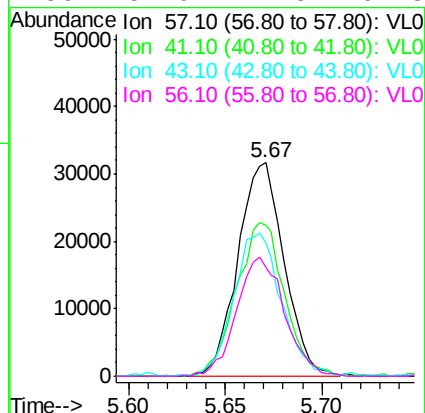
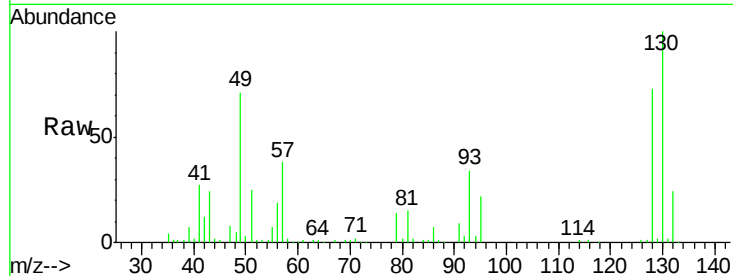
#26
Hexane
Concen: 0.513 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL035623.D
Acq: 15 Sep 2020 7:19

Instrument :
MSVOA_L
ClientSampled :
SV-11

Tot Ion	Ratio	Lower	Upper
57	100		
41	75.1	55.9	83.9
43	70.5	141.8	212.8#
56	57.9	41.8	62.8

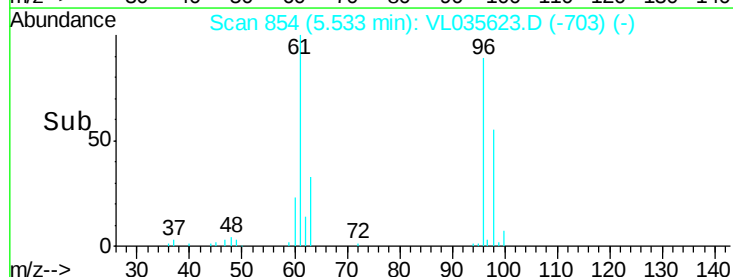
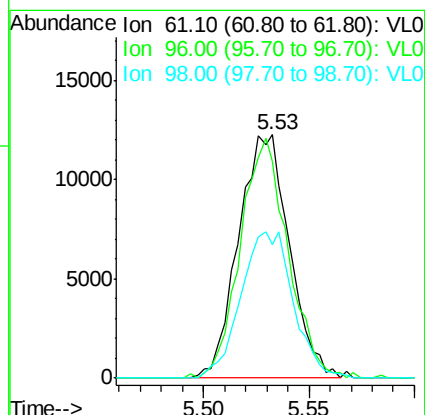
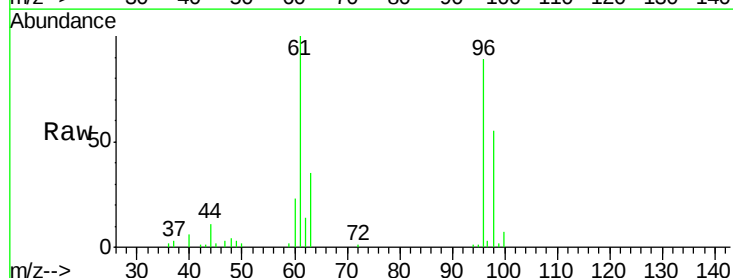
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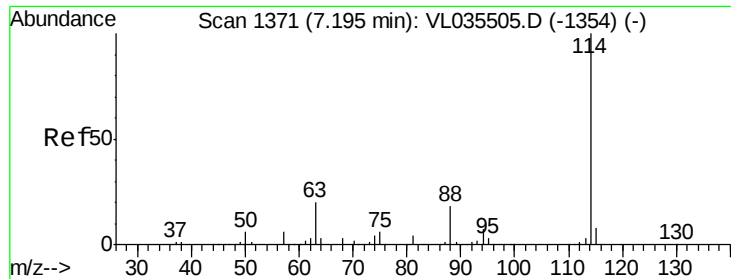
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#31
cis-1,2-Dichloroethene
Concen: 0.195 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL035623.D
Acq: 15 Sep 2020 7:19

Tgt Ion	Ratio	Lower	Upper
61	100		
96	87.8	74.4	111.6
98	55.0	49.2	73.8





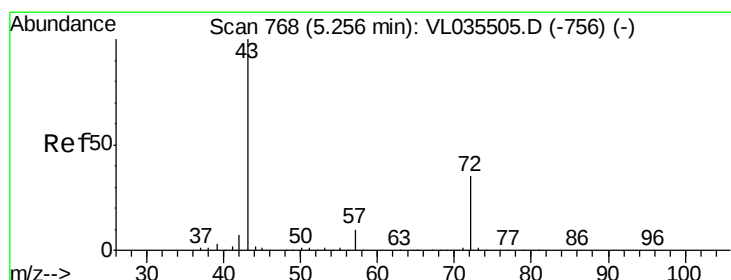
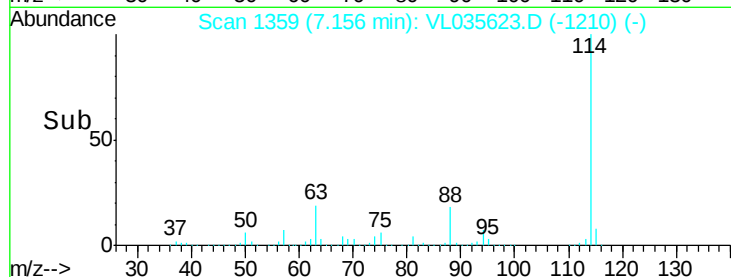
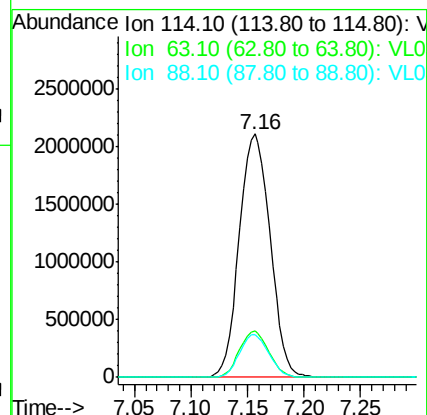
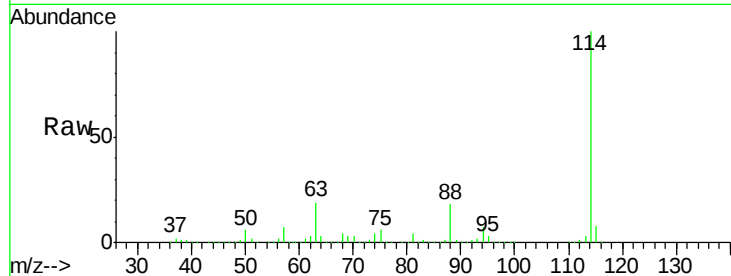
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL035623.D
 Acq: 15 Sep 2020 7:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	14.7	22.1
88	16.8	13.4	20.2

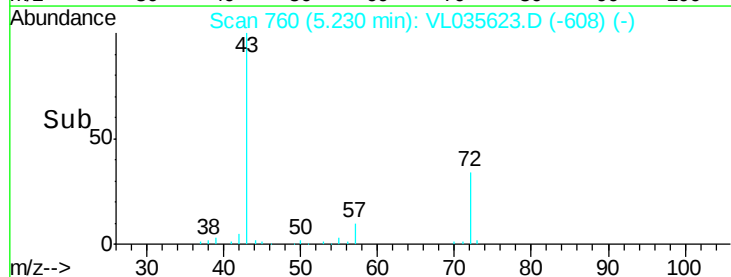
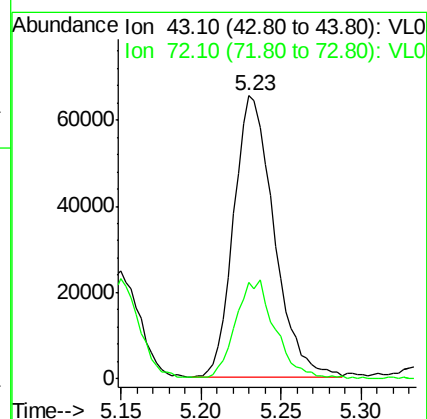
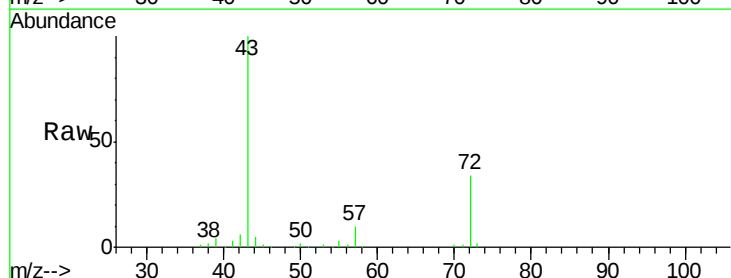
Manual Integrations
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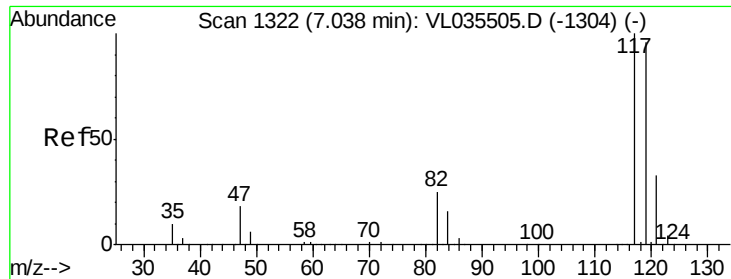
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#34
 2-Butanone
 Concen: 0.936 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.01 min
 Lab File: VL035623.D
 Acq: 15 Sep 2020 7:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	34.2	27.7	41.5





#35

Carbon Tetrachloride

Concen: 0.049 ppbv m

RT: 7.00 min Scan# 1311

Delta R.T. -0.02 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

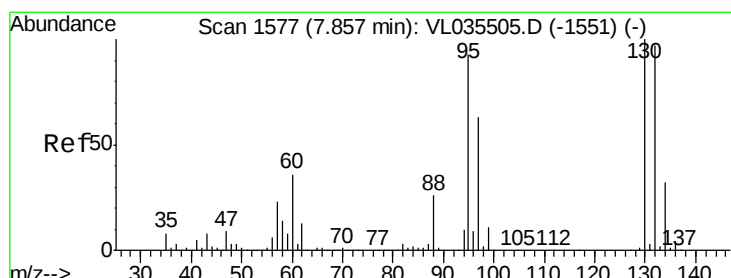
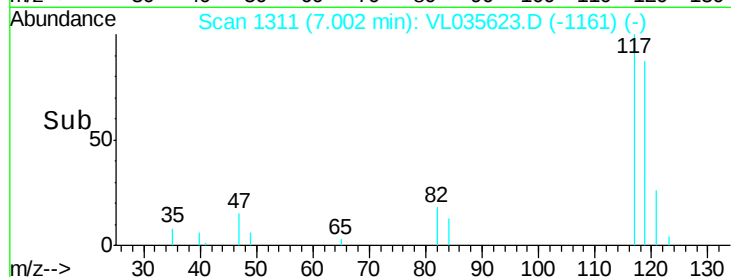
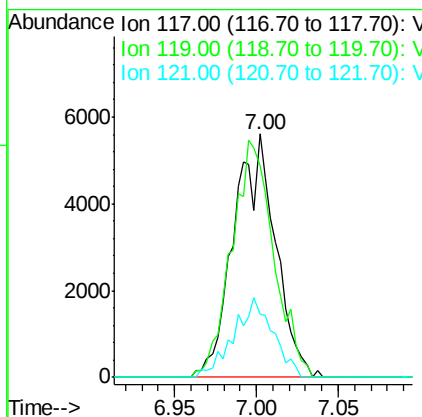
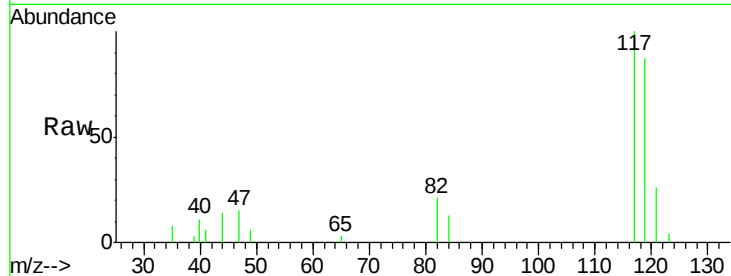
ClientSampleId :

SV-11

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.0	77.2	115.8
121	26.0	26.1	39.1#

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#38

Trichloroethene

Concen: 0.510 ppbv

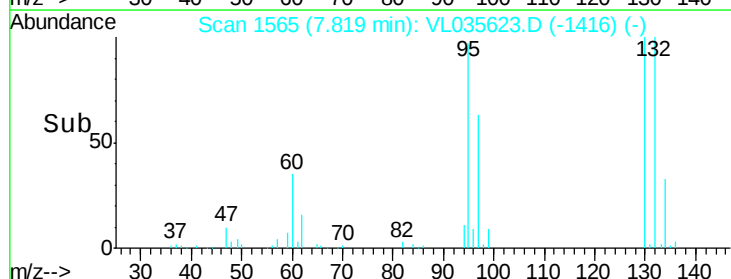
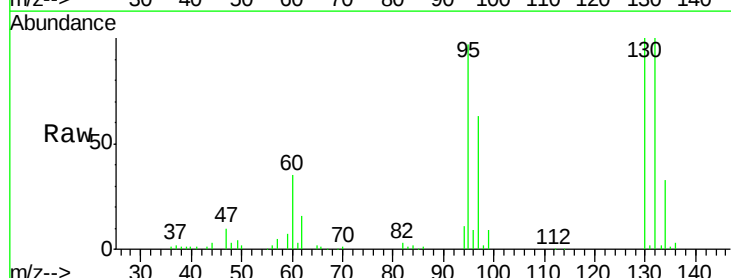
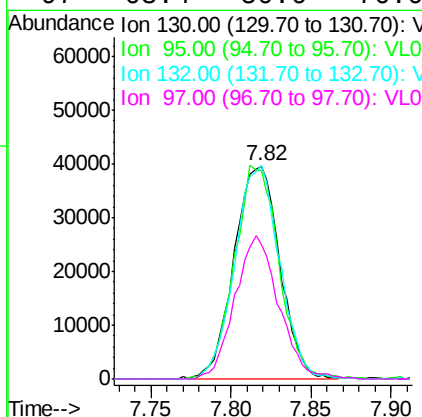
RT: 7.82 min Scan# 1565

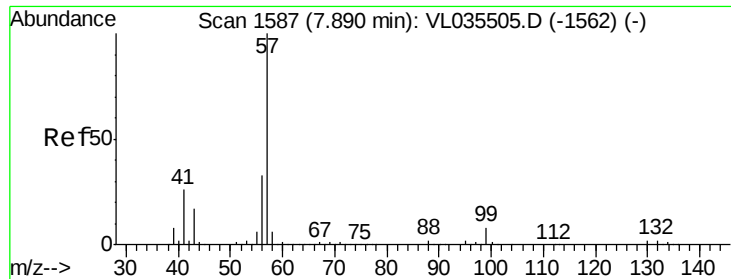
Delta R.T. -0.02 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.1	74.6	112.0
132	100.3	77.6	116.4
97	63.4	50.6	76.0





#44

2,2,4-Trimethylpentane

Concen: 0.165 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. -0.02 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

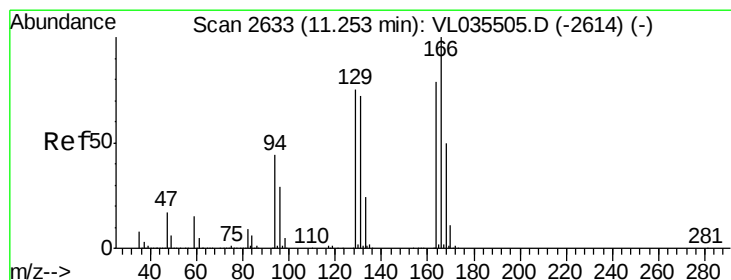
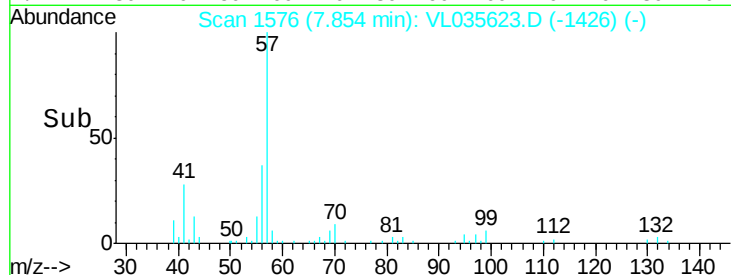
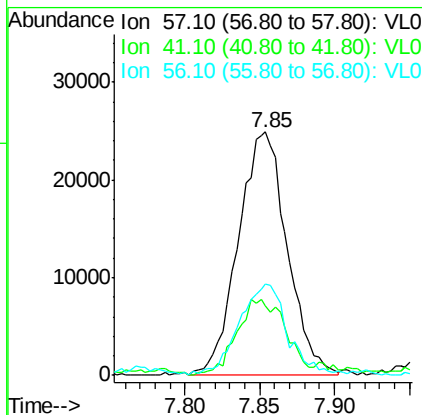
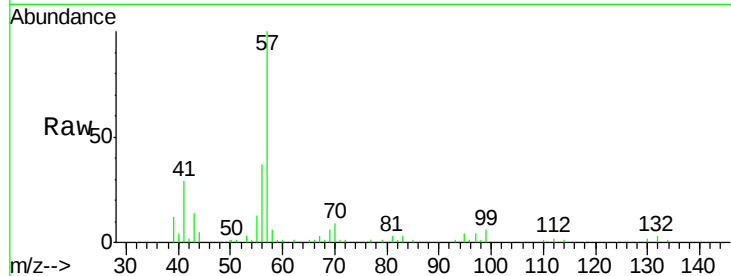
ClientSampleId :

SV-11

Tot Ion:	57	Resp:	56540
Ion Ratio	Lower	Upper	
57	100		
41	34.7	20.5	30.7#
56	38.2	25.3	37.9#

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#52

Tetrachloroethene

Concen: 3.594 ppbv

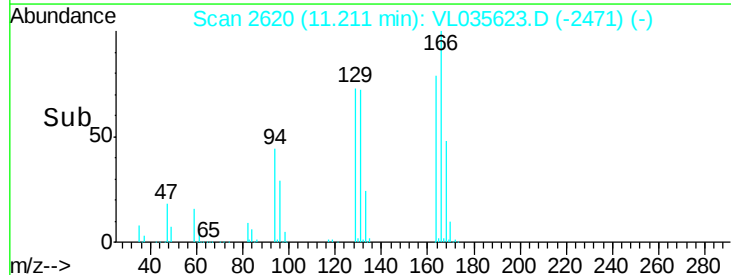
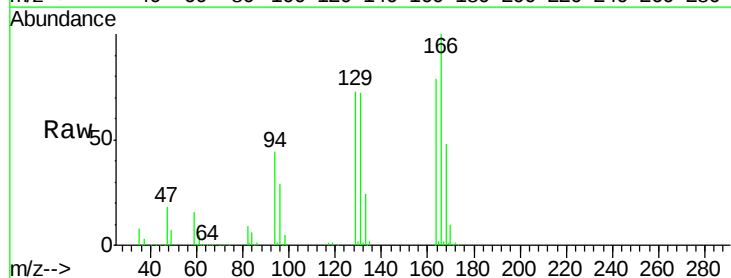
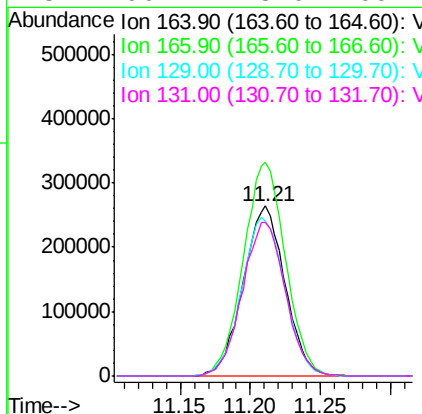
RT: 11.21 min Scan# 2620

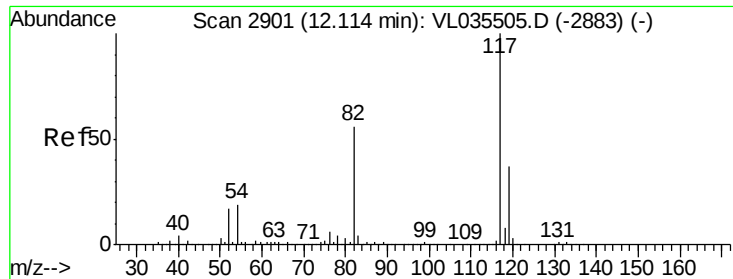
Delta R.T. -0.02 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Tgt Ion:	164	Resp:	547257
Ion Ratio	Lower	Upper	
164	100		
166	125.7	100.9	151.3
129	91.3	75.3	112.9
131	90.2	73.0	109.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Instrument :

MSVOA_L

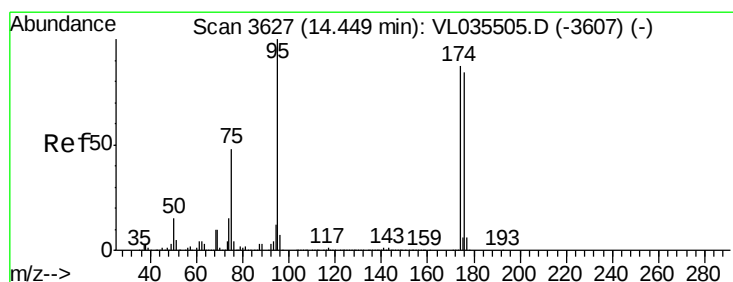
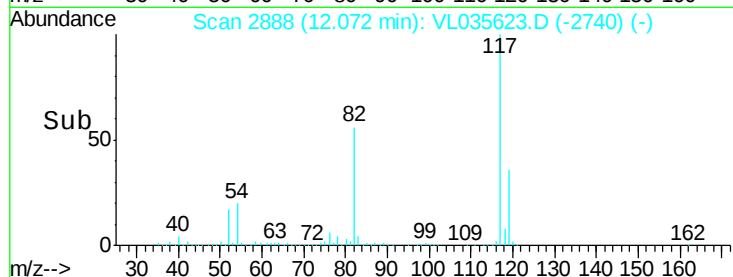
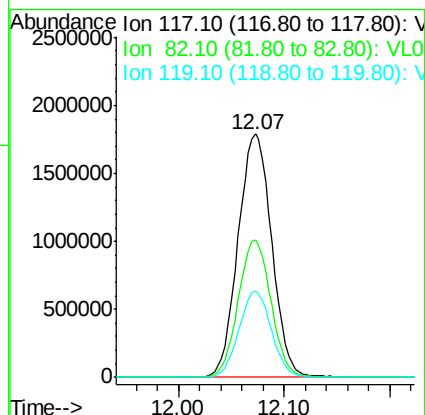
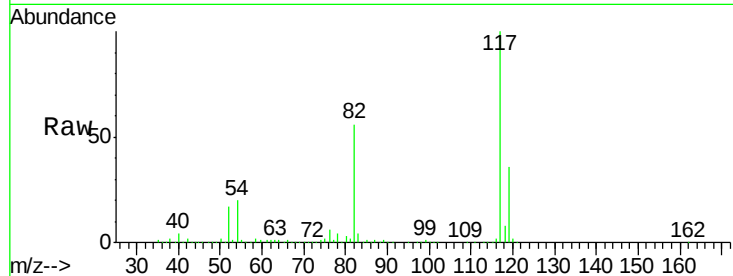
ClientSampleId :

SV-11

Tot Ion:	117	Resp:	3969541
Ion	Ratio	Lower	Upper
117	100		
82	55.3	41.6	62.4
119	34.4	29.3	43.9

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.498 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.03 min

Lab File: VL035623.D

Acq: 15 Sep 2020 7:19

Tgt Ion:	95	Resp:	2959299
Ion	Ratio	Lower	Upper
95	100		
174	81.1	69.6	104.4
175	5.9	5.1	7.7

