

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111020\
 Data File : VL035905.D
 Acq On : 11 Nov 2020 9:12
 Operator : SY/AP
 Sample : L4618-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-1

Manual Integrations
 APPROVED

MMDadoda
 11/12/2020 9:03:24 AM

Quant Time: Nov 11 16:56:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 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	5.67	49	1088728	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3909987	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3878982	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2919469	10.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	41623	0.203	ppbv	98
3) Chlorodifluoromethane	2.98	51	44190	0.339	ppbv	91
4) Chloromethane	3.13	50	30889	0.488	ppbv	97
5) Vinyl Chloride	3.25	62	4392	0.054	ppbv	97
9) Propene	3.00	41	84866	1.778	ppbv	98
10) Heptane	8.12	43	30870	0.234	ppbv	99
11) Trichlorofluoromethane	3.94	101	61774	0.240	ppbv	91
13) Ethanol	3.61	45	177699	17.165	ppbv	94
15) Acetone	3.84	43	20656153	177.466	ppbv #	66
17) tert-Butyl alcohol	4.30	59	244057	1.582	ppbv	96
20) Methylene Chloride	4.35	84	276351	3.373	ppbv	97
26) Hexane	5.68	57	266273	2.106	ppbv #	46
29) Chloroform	5.76	83	55487	0.223	ppbv	95
30) Cyclohexane	7.12	84	39422	0.286	ppbv #	86
34) 2-Butanone	5.25	43	81549	0.643	ppbv	99
35) Carbon Tetrachloride	7.02	117	13224m	0.063	ppbv	
36) Benzene	6.90	78	298560	1.027	ppbv	94
44) 2,2,4-Trimethylpentane	7.87	57	103222	0.268	ppbv #	70
52) Tetrachloroethene	11.22	164	14168m	0.103	ppbv	
53) Toluene	9.81	91	17118915	48.807	ppbv #	78
58) Ethyl Benzene	12.71	91	219985	0.466	ppbv	88
59) m/p-Xylene	12.97	91	399725	1.000	ppbv	100
60) o-Xylene	13.69	91	151953	0.391	ppbv	94
61) Styrene	13.53	104	36447	0.128	ppbv #	93
62) Isopropylbenzene	14.67	105	3201196	5.238	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	120638m	0.261	ppbv	

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

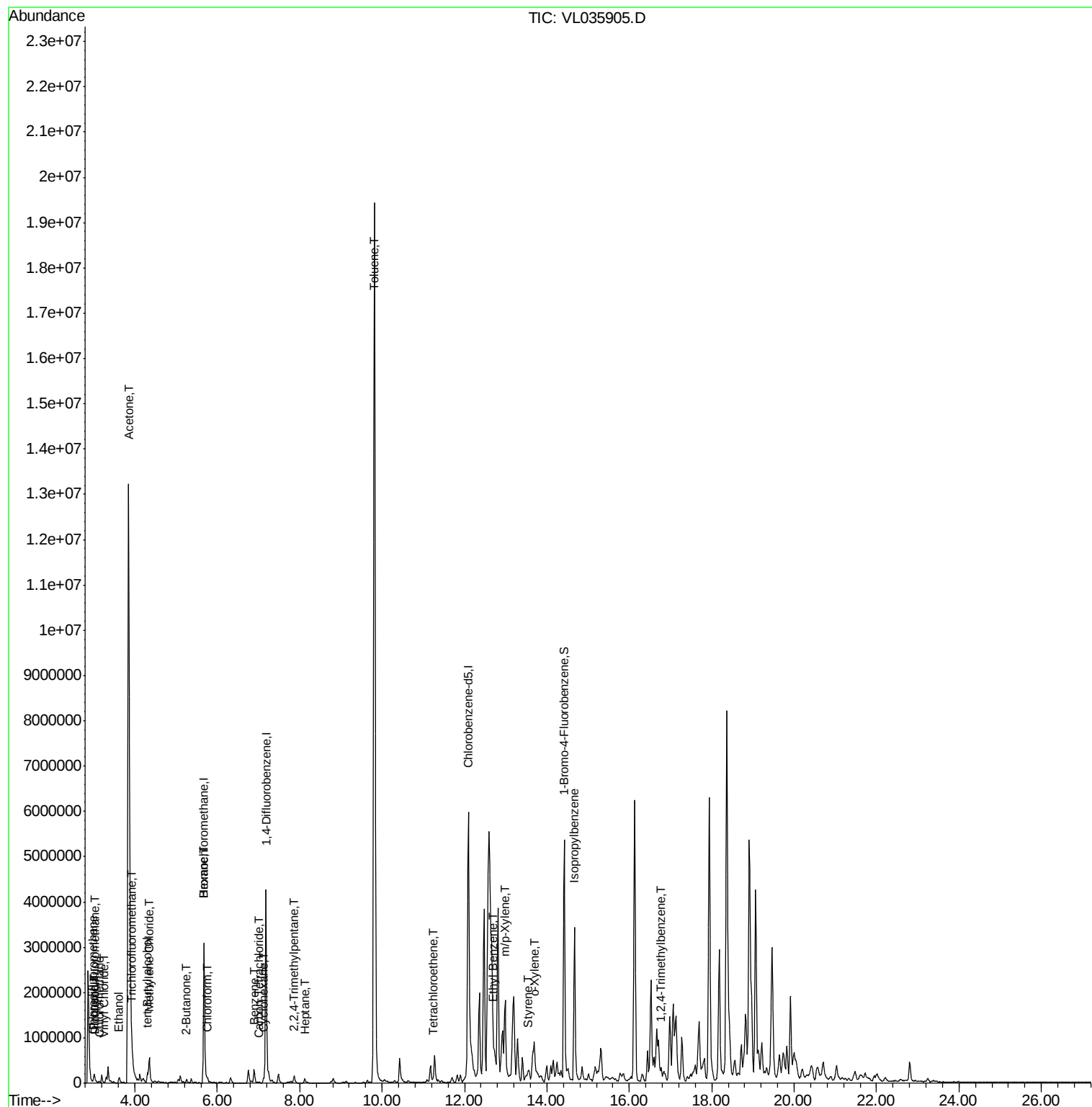
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111020\
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Acq On : 11 Nov 2020 9:12
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Quant Time: Nov 11 16:56:17 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS 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: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Instrument :

MSVOA_L

ClientSampleId :

SSSG-1

Tot Ion: 49 Resp: 1088728

Ion Ratio Lower Upper

49 100

128 76.8 41.5 124.6

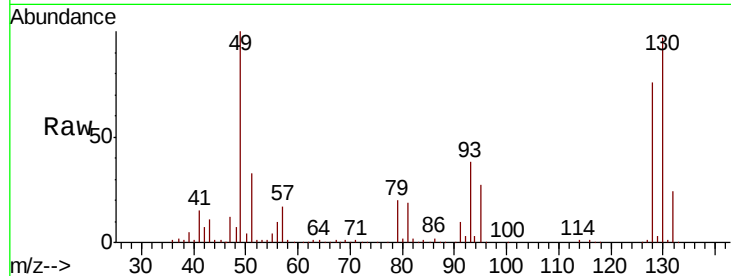
130 98.6 53.7 161.1

Manual Integrations

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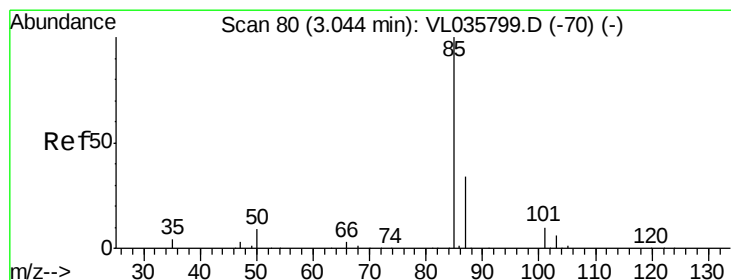
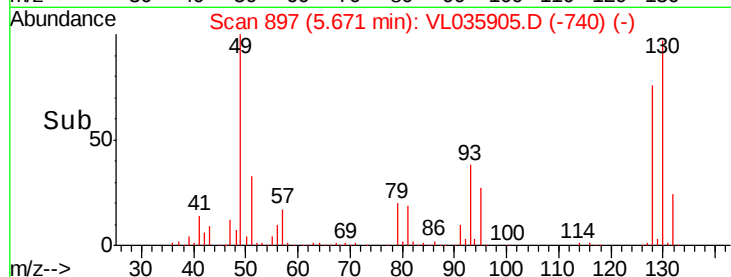
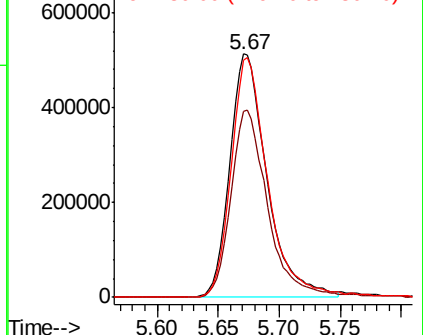
11/12/2020 9:03:24 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.203 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL035905.D

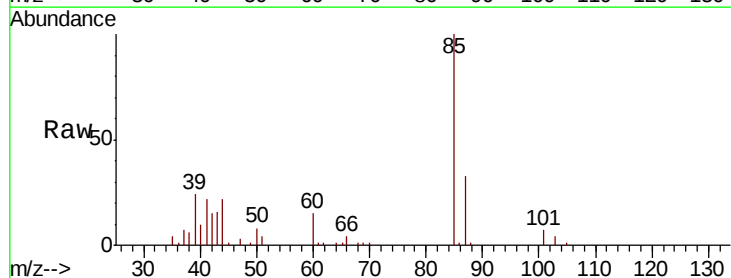
Acq: 11 Nov 2020 9:12

Tgt Ion: 85 Resp: 41623

Ion Ratio Lower Upper

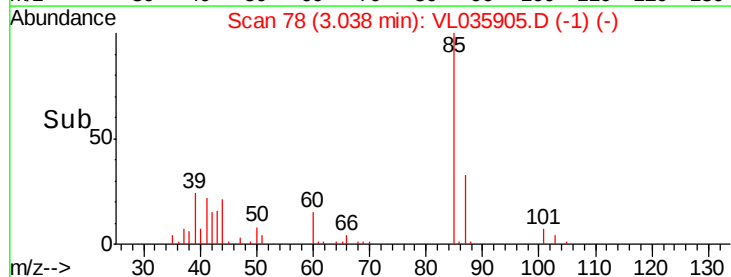
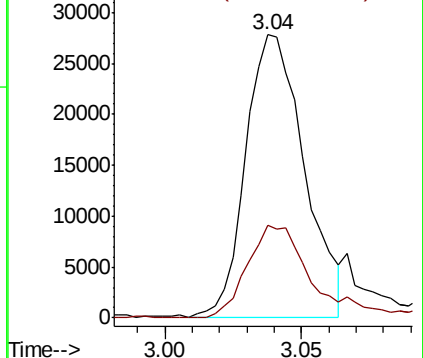
85 100

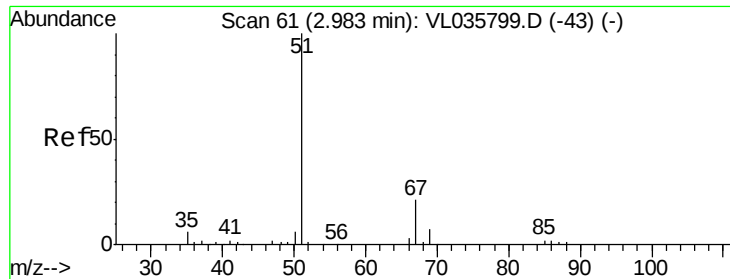
87 32.8 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.339 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Instrument :

MSVOA_L

ClientSampleId :

SSSG-1

Tot Ion: 51 Resp: 44190

Ion Ratio Lower Upper

51 100

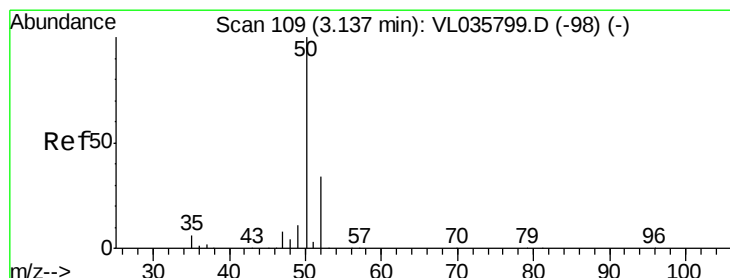
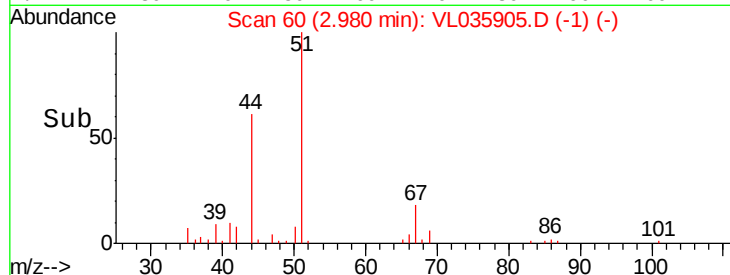
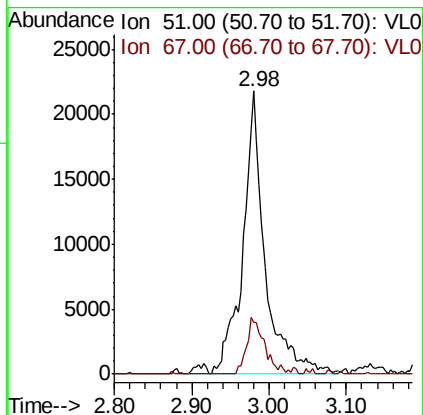
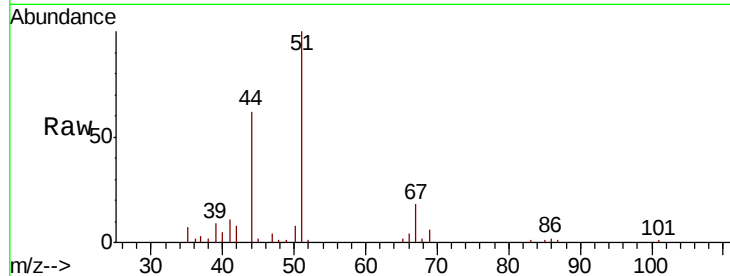
67 17.1 17.0 25.4

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#4

Chloromethane

Concen: 0.488 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL035905.D

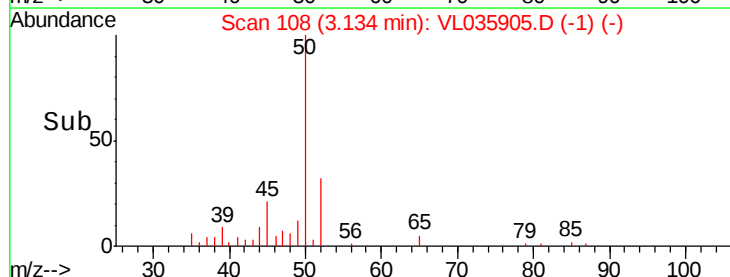
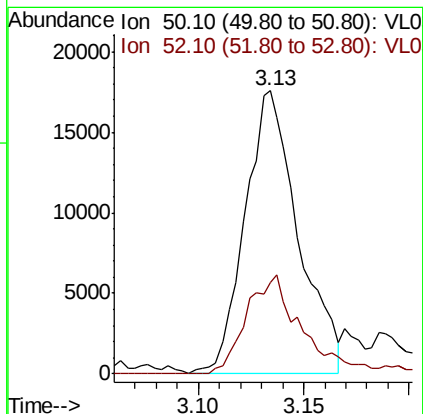
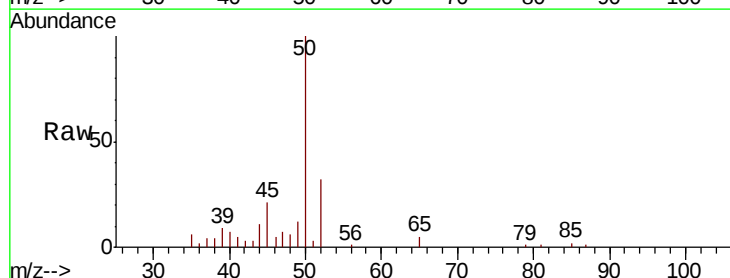
Acq: 11 Nov 2020 9:12

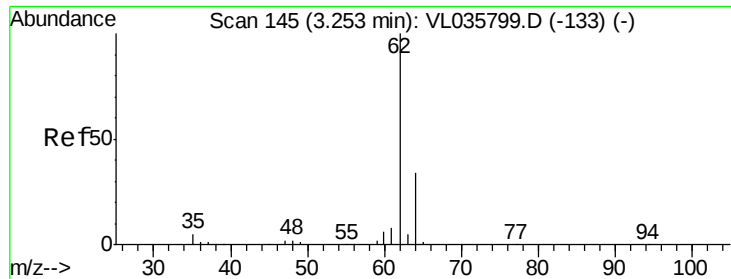
Tgt Ion: 50 Resp: 30889

Ion Ratio Lower Upper

50 100

52 32.4 27.1 40.7





#5

Vinyl Chloride

Concen: 0.054 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.00 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Instrument :

MSVOA_L

ClientSampled :

SSSG-1

Tot Ion: 62 Resp: 4392

Ion Ratio Lower Upper

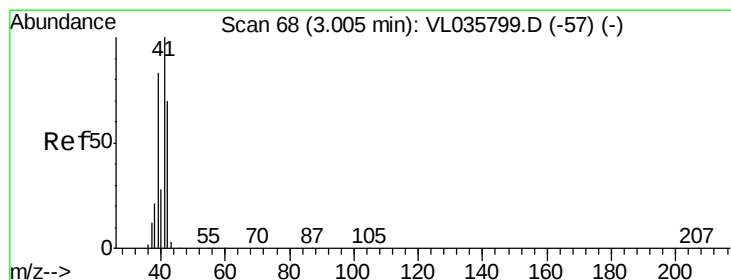
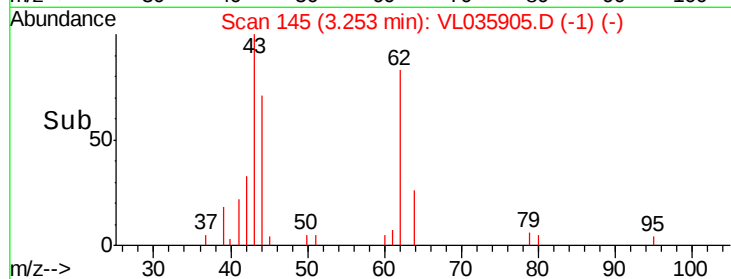
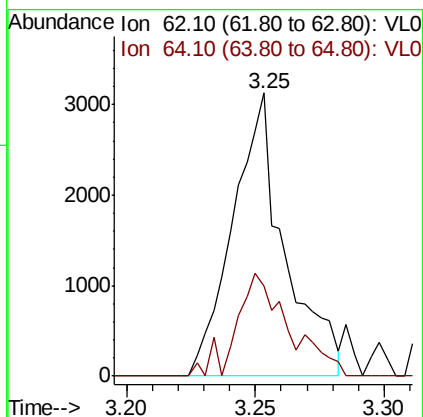
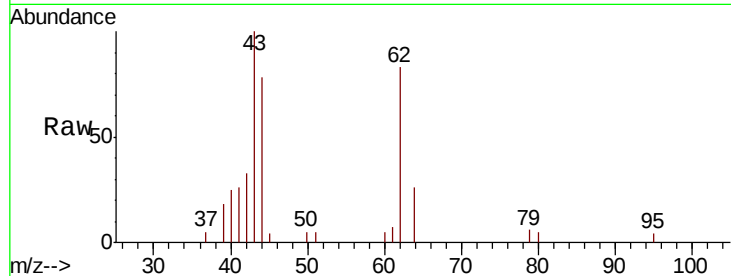
62 100

64 31.9 26.9 40.3

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#9

Propene

Concen: 1.778 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035905.D

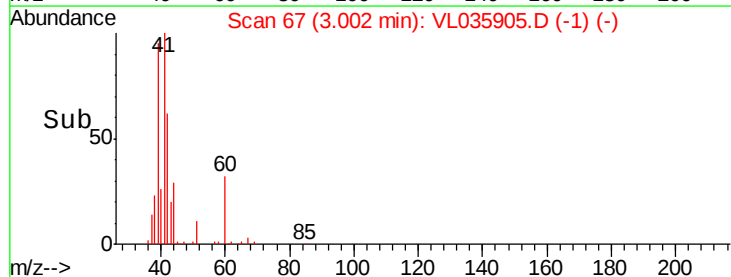
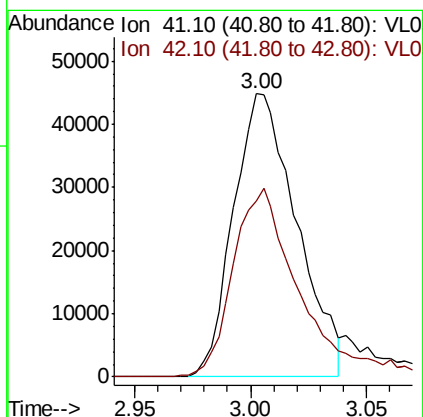
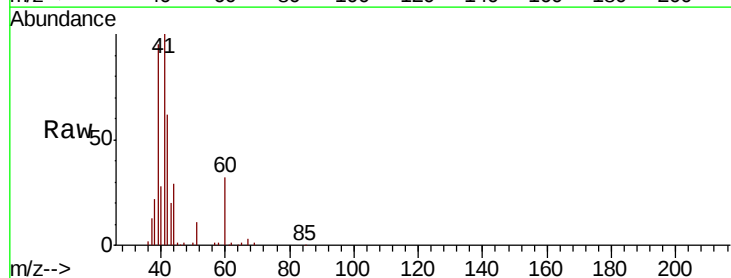
Acq: 11 Nov 2020 9:12

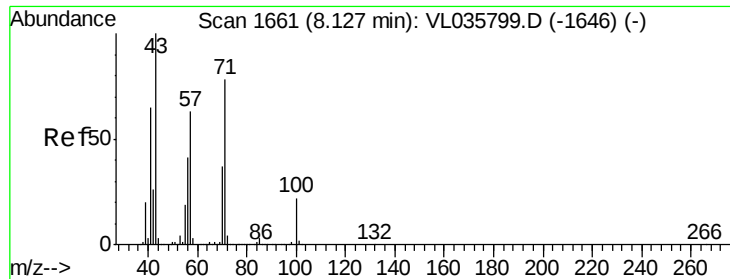
Tgt Ion: 41 Resp: 84866

Ion Ratio Lower Upper

41 100

42 71.7 56.2 84.4





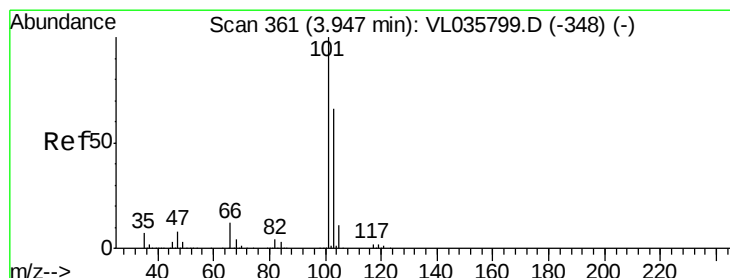
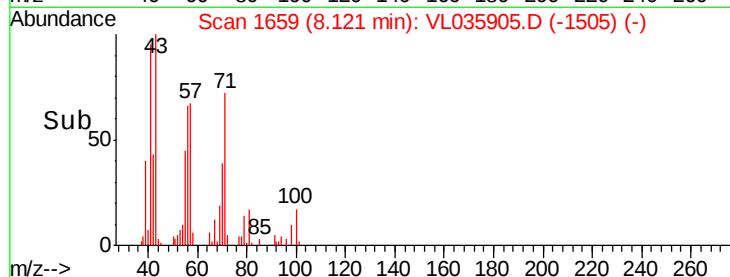
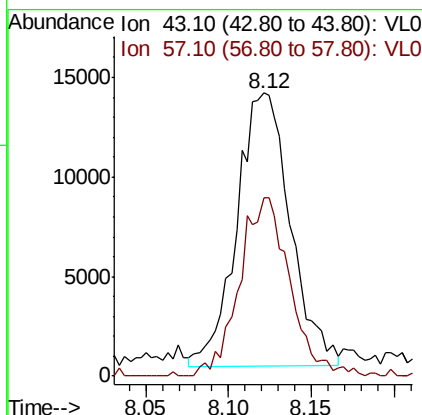
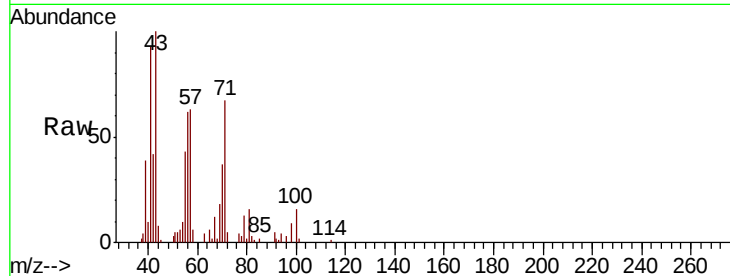
#10
Heptane
Concen: 0.234 ppbv
RT: 8.12 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion: 43 Resp: 30870
Ion Ratio Lower Upper
43 100
57 61.8 50.0 75.0

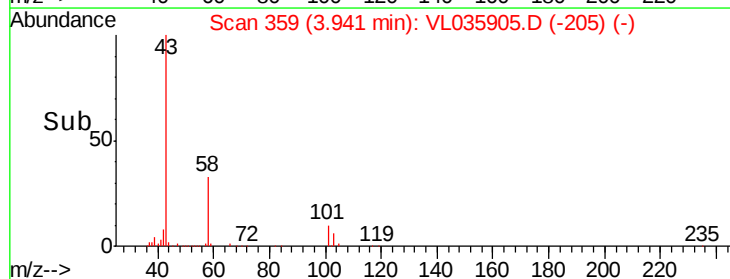
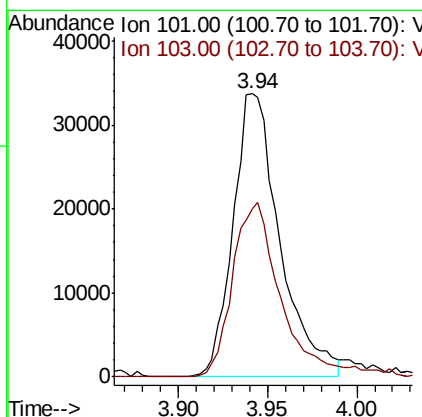
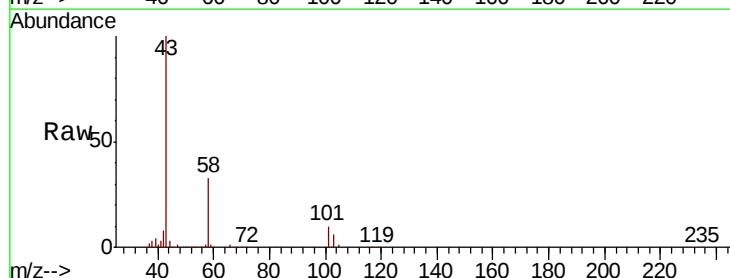
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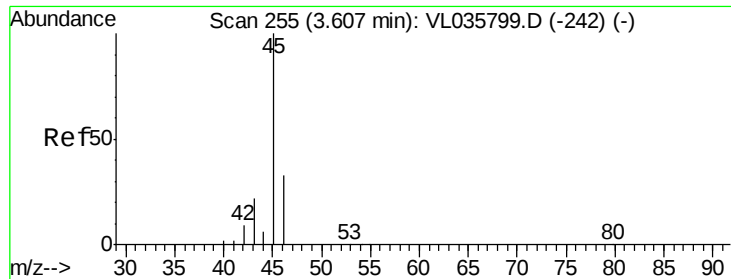
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#11
Trichlorofluoromethane
Concen: 0.240 ppbv
RT: 3.94 min Scan# 359
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion: 101 Resp: 61774
Ion Ratio Lower Upper
101 100
103 59.3 53.0 79.4





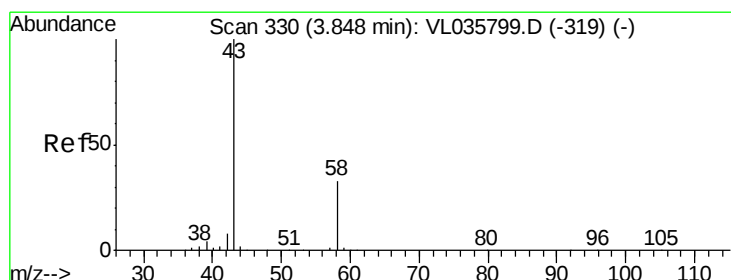
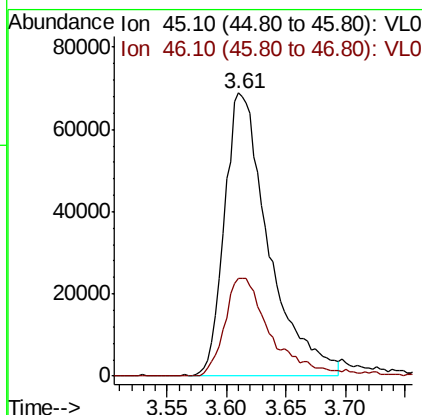
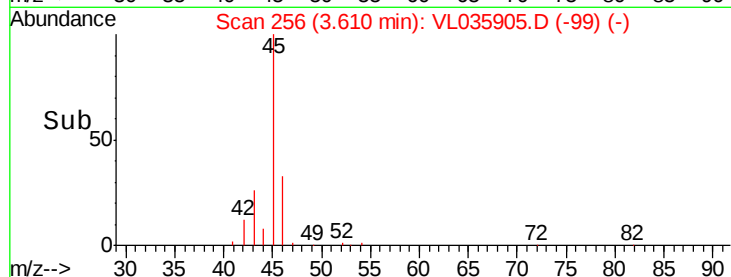
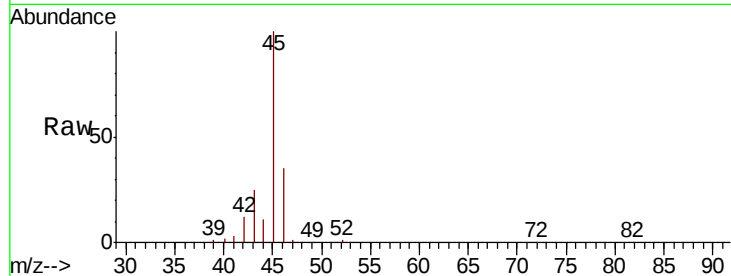
#13
Ethanol
Concen: 17.165 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.7	16.1	64.5

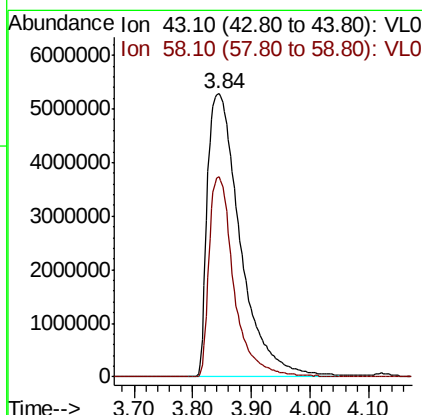
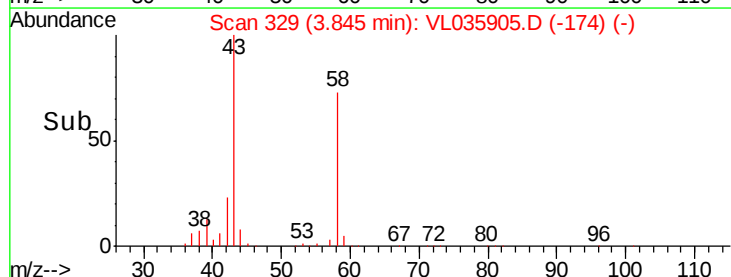
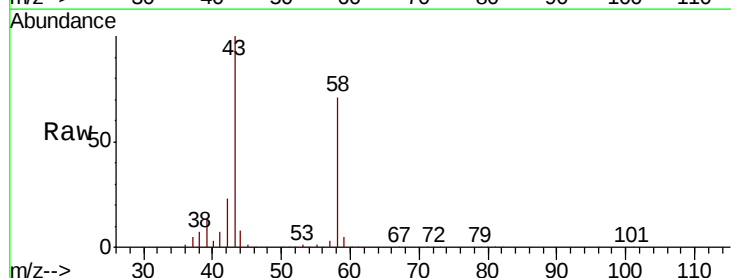
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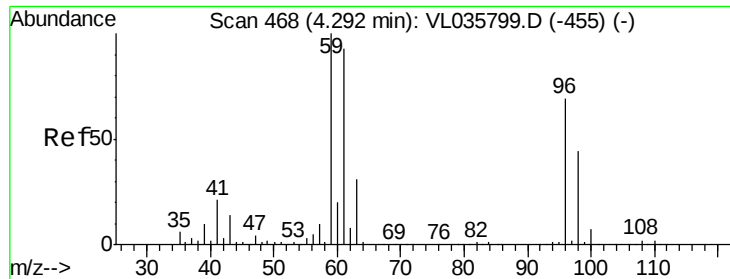
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#15
Acetone
Concen: 177.466 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	53.9	27.5	41.3#





#17

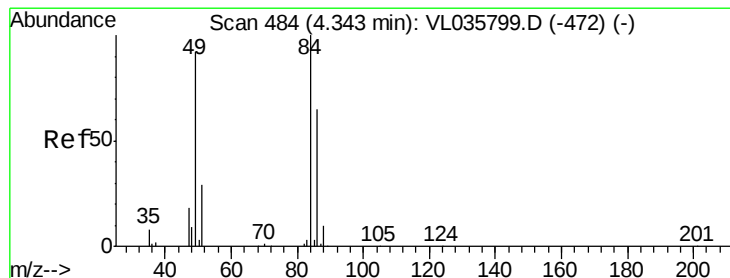
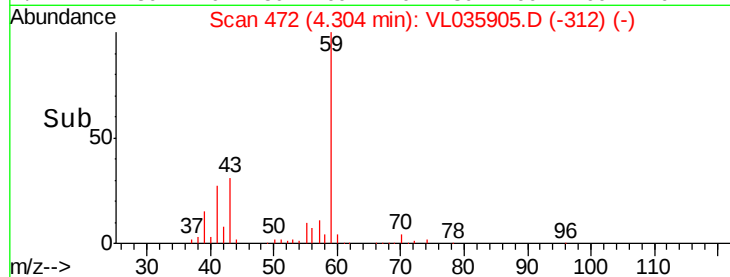
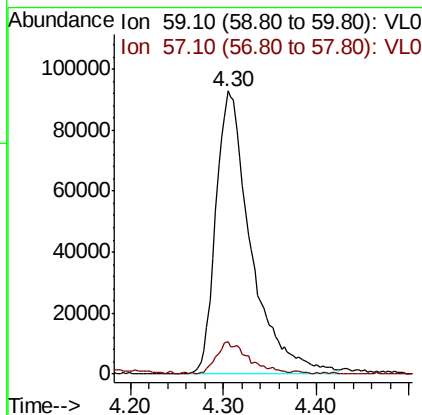
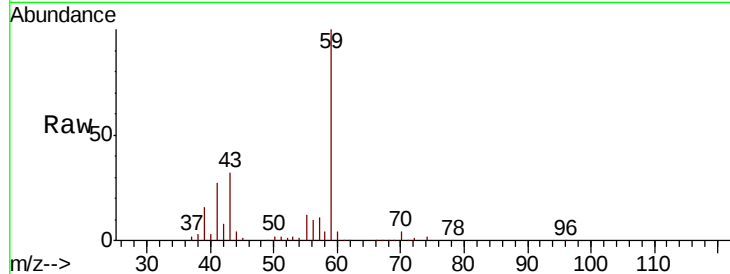
tert-Butyl alcohol
Concen: 1.582 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion	59	Resp	244057
Ion Ratio	100	Lower	Upper
57	11.7	8.2	12.4

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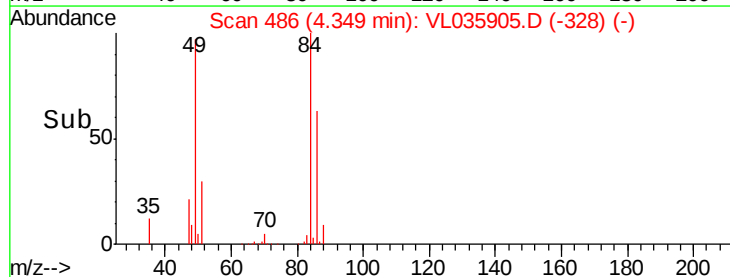
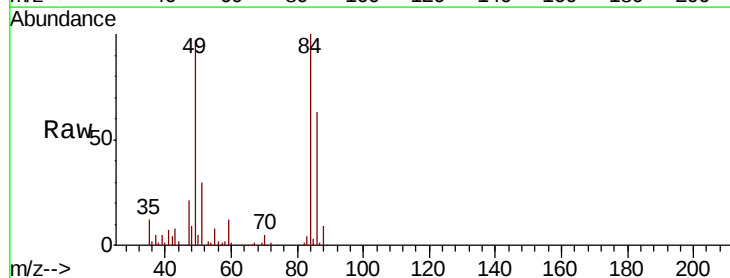
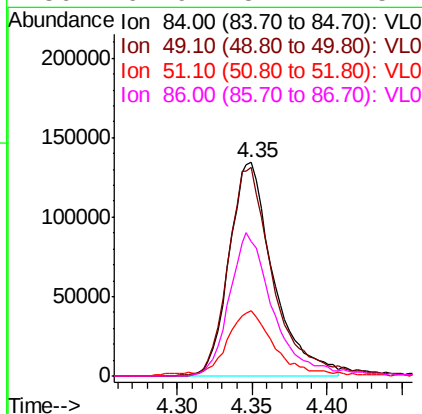
MMDadoda
11/12/2020 9:03:24 AM

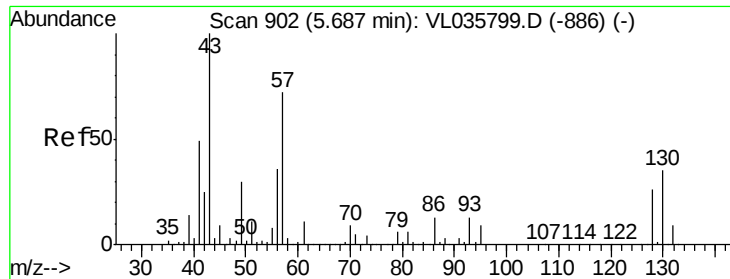


#20

Methylene Chloride
Concen: 3.373 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	84	Resp	276351
Ion Ratio	100	Lower	Upper
49	96.8	73.8	110.8
51	28.8	23.0	34.4
86	62.9	52.1	78.1





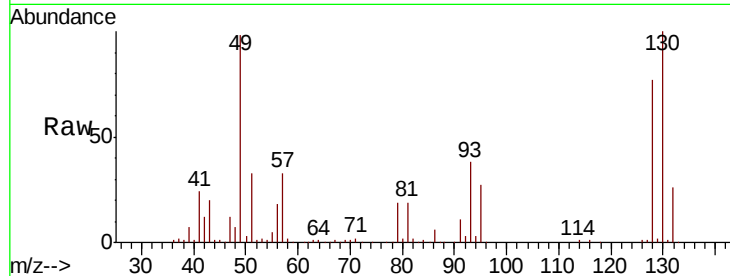
#26
Hexane
Concen: 2.106 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
57	100		
41	80.6	58.9	88.3
43	63.2	150.2	225.2#
56	59.2	42.4	63.6

Manual Integrations
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11/12/2020 9:03:24 AM



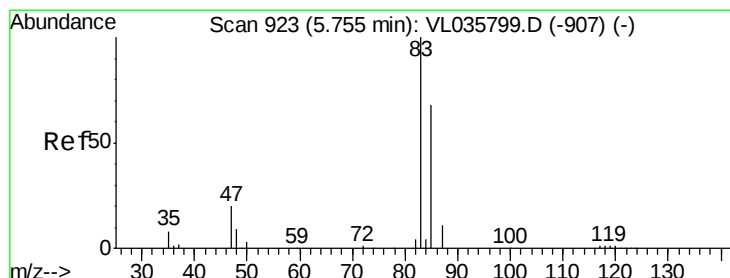
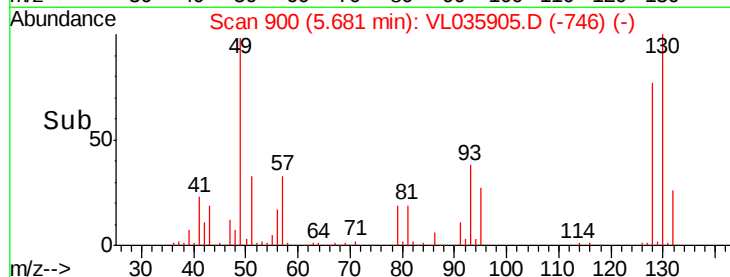
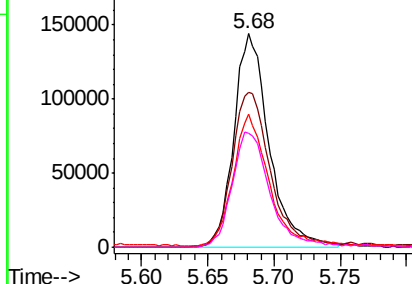
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

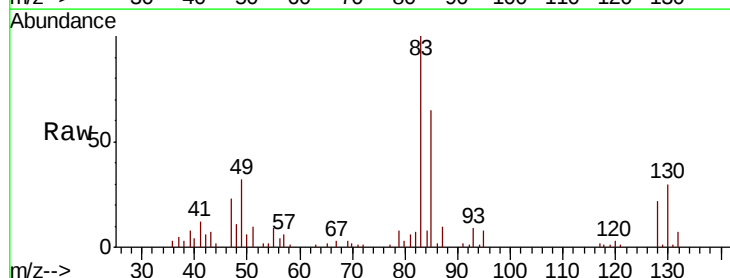
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.223 ppbv
RT: 5.76 min Scan# 924
Delta R.T. 0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

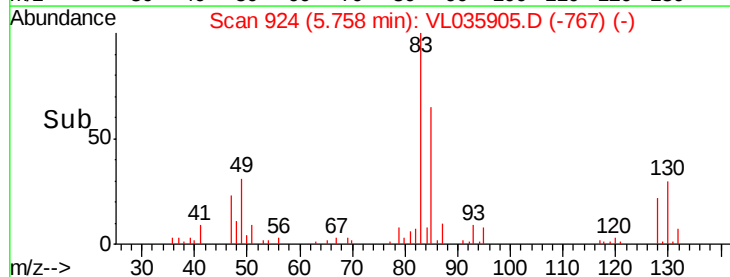
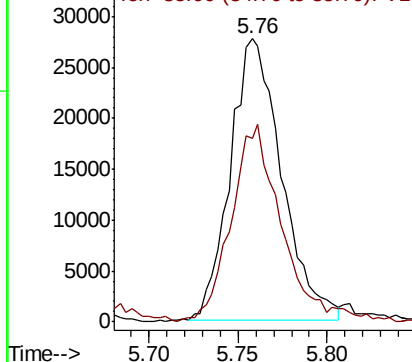
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	54.6	81.8

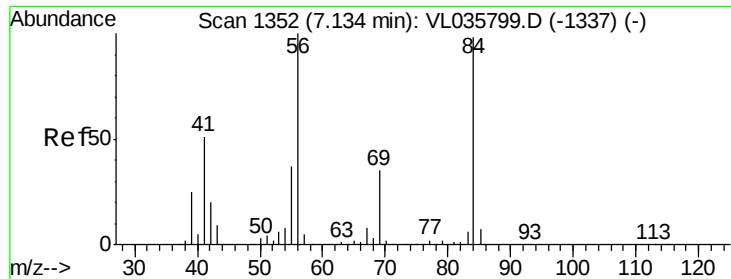


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





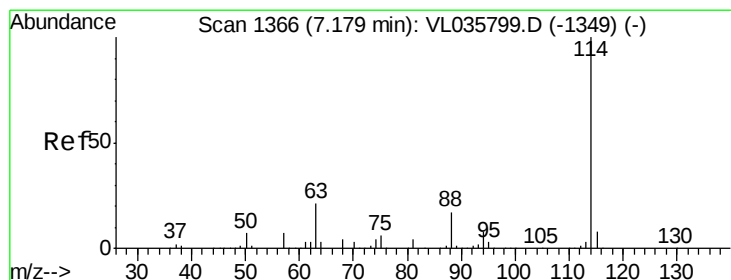
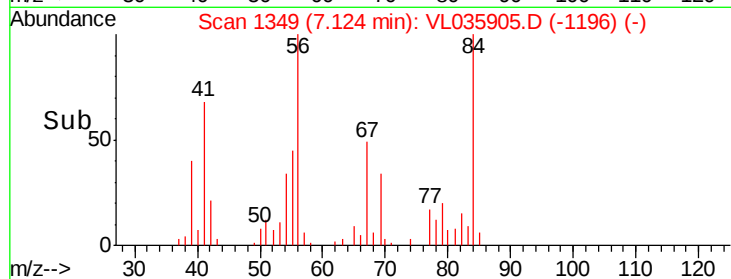
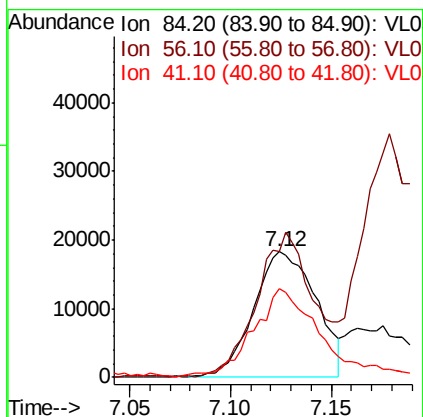
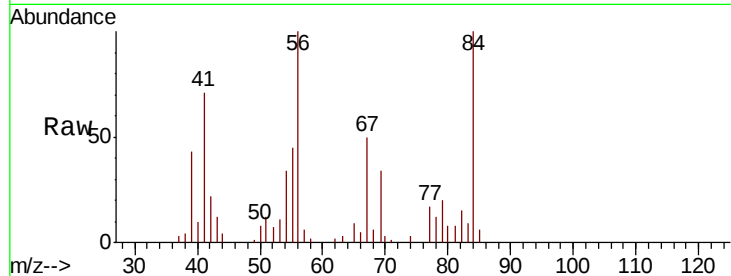
#30
Cyclohexane
Concen: 0.286 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
84	100		
56	102.8	86.4	129.6
41	75.9	42.1	63.1#

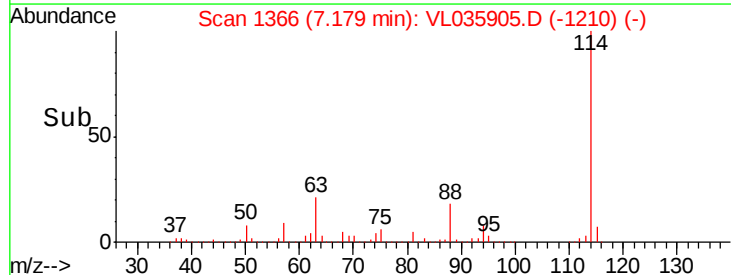
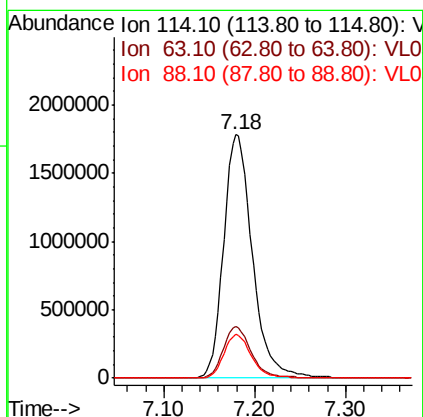
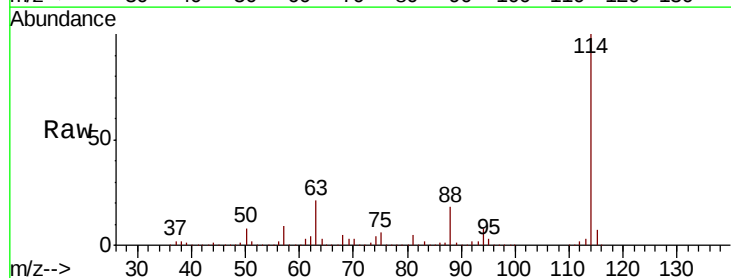
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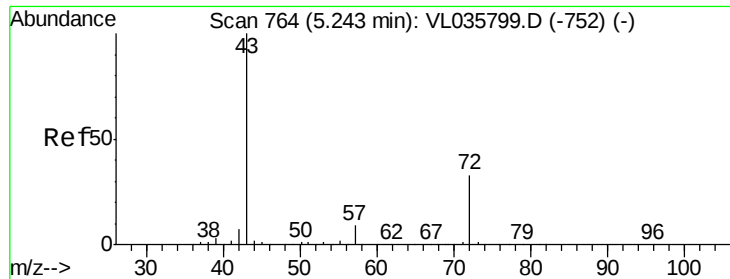
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.9	16.1	24.1
88	17.4	13.7	20.5





#34

2-Butanone

Concen: 0.643 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Instrument :

MSVOA_L

ClientSampleId :

SSSG-1

Tot Ion: 43 Resp: 81549

Ion Ratio Lower Upper

43 100

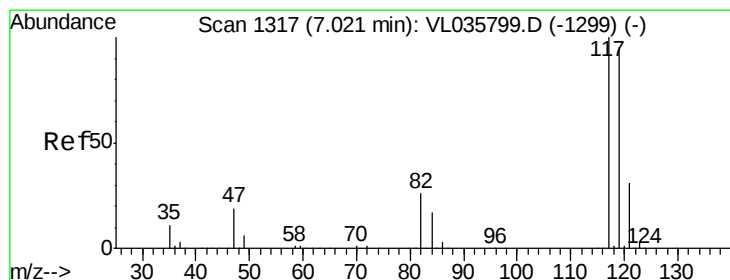
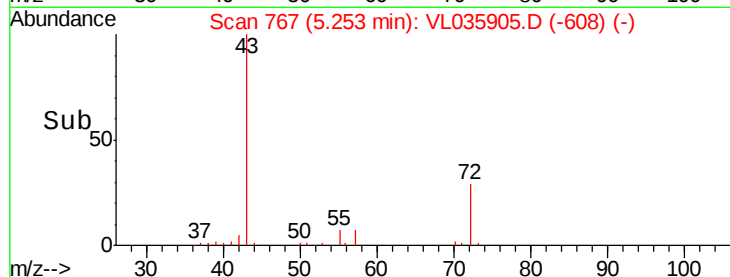
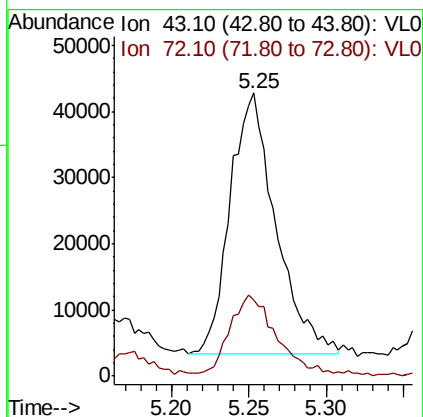
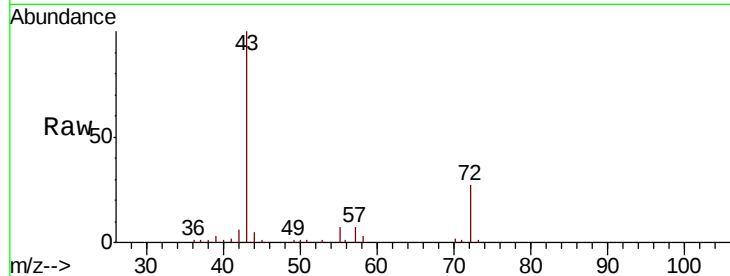
72 32.8 26.5 39.7

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#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

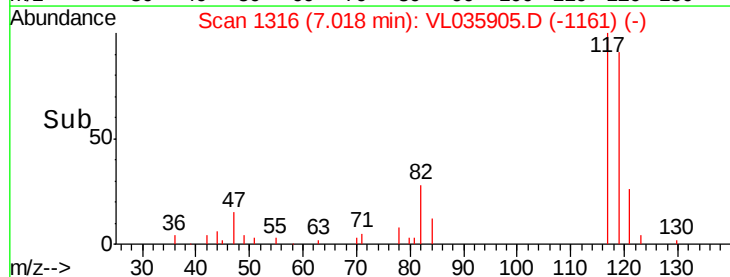
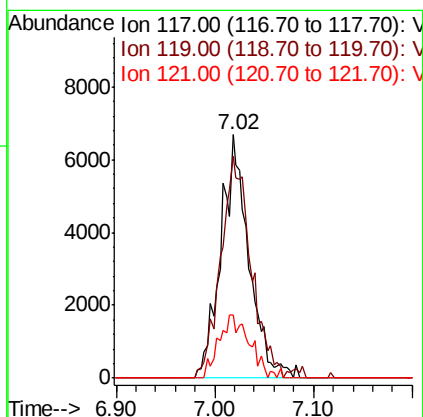
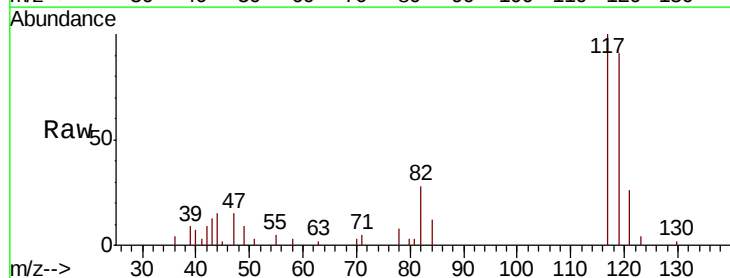
Tgt Ion: 117 Resp: 13224

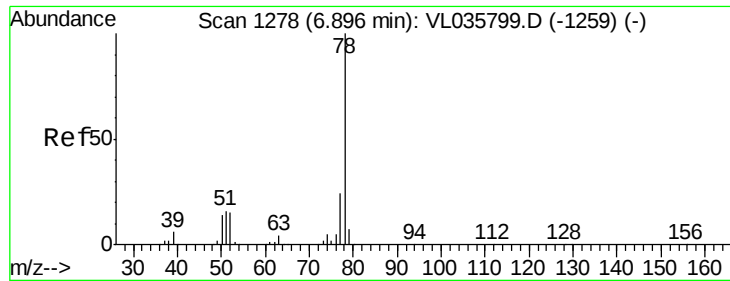
Ion Ratio Lower Upper

117 100

119 91.2 75.6 113.4

121 26.0 25.1 37.7





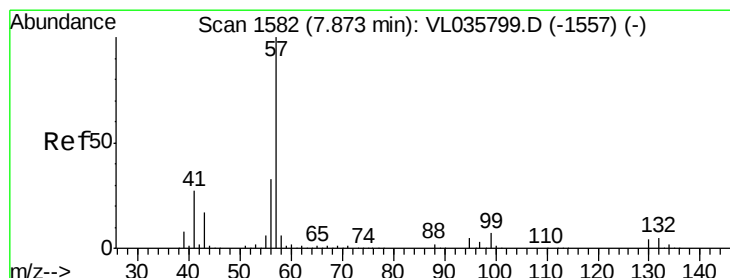
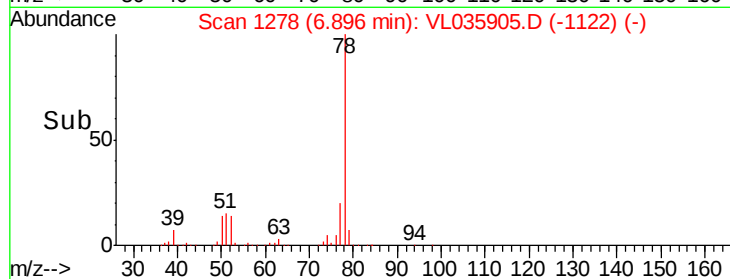
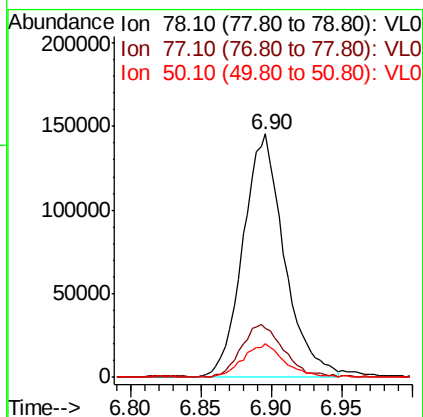
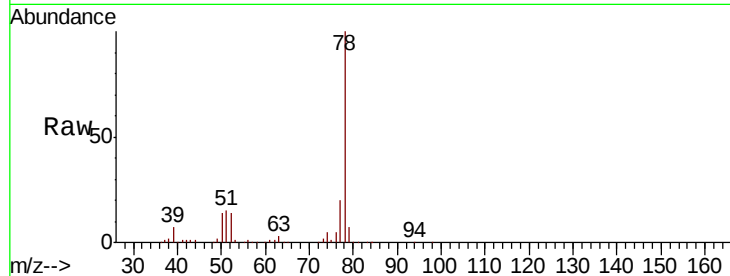
#36
Benzene
Concen: 1.027 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.9	19.3	28.9
50	13.7	11.4	17.2

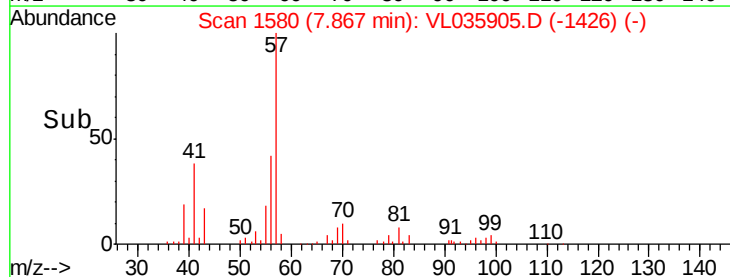
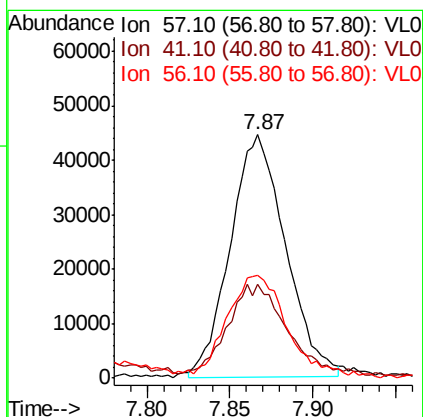
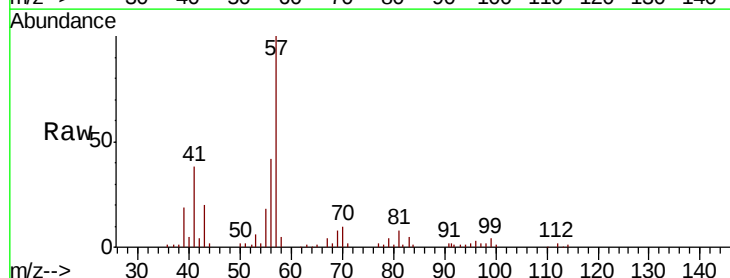
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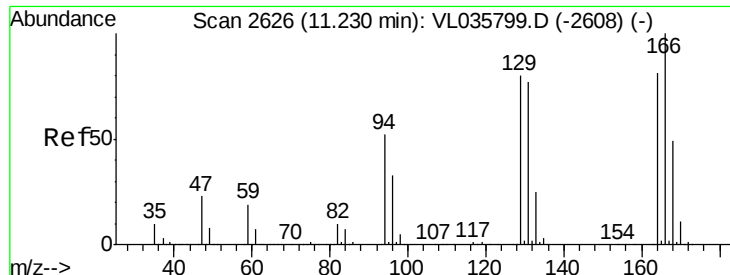
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#44
2,2,4-Trimethylpentane
Concen: 0.268 ppbv
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.0	21.0	31.4#
56	47.5	25.4	38.0#





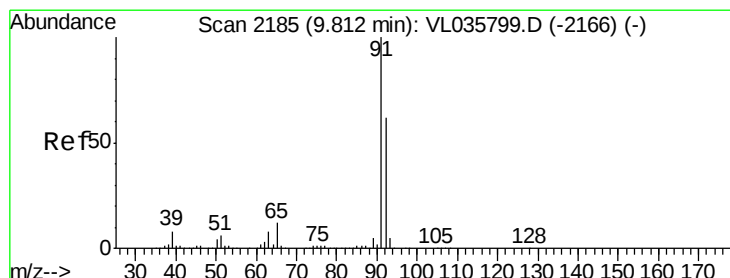
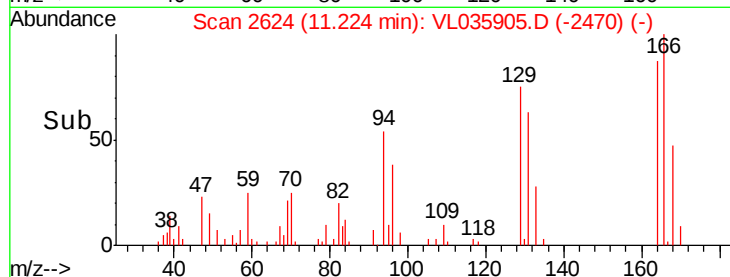
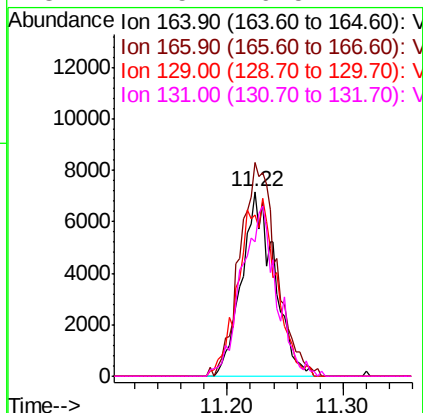
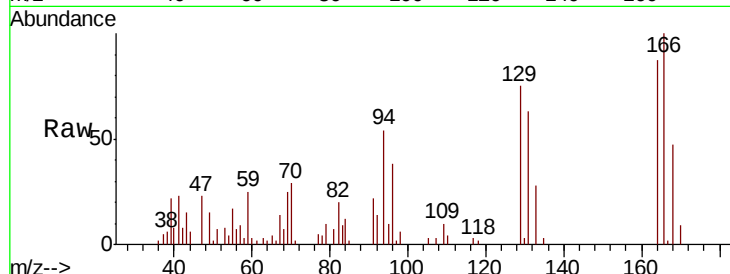
#52
Tetrachloroethene
Concen: 0.103 ppbv m
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion	Ratio	Lower	Upper
164	100		
166	115.5	99.3	148.9
129	87.2	79.3	118.9
131	72.5	76.5	114.7

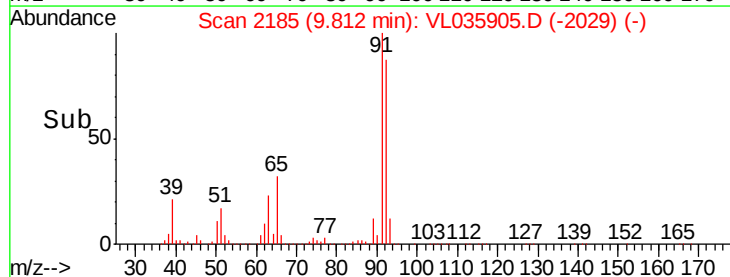
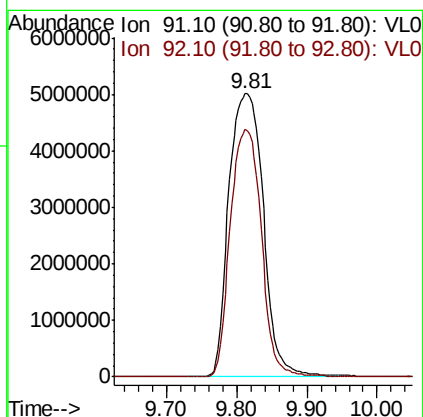
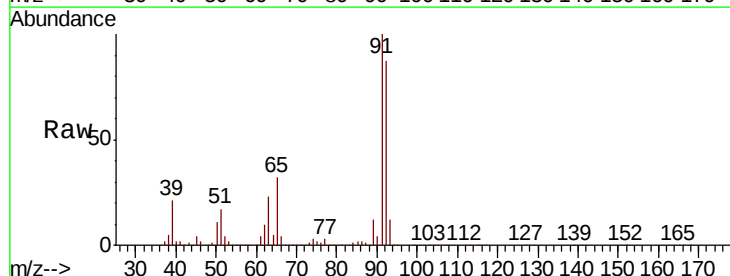
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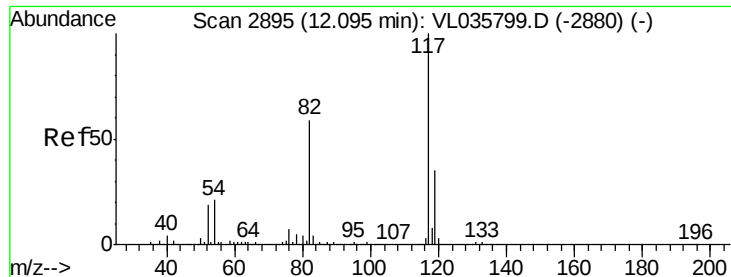
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#53
Toluene
Concen: 48.807 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. 0.00 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	78.9	49.8	74.6





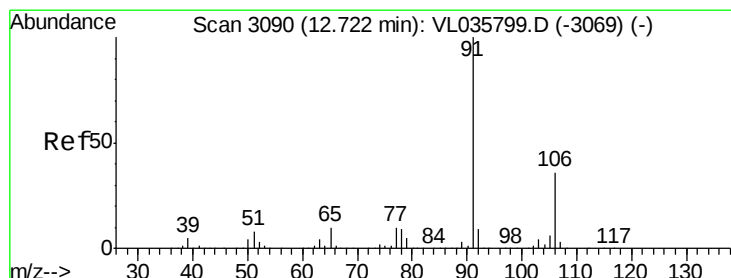
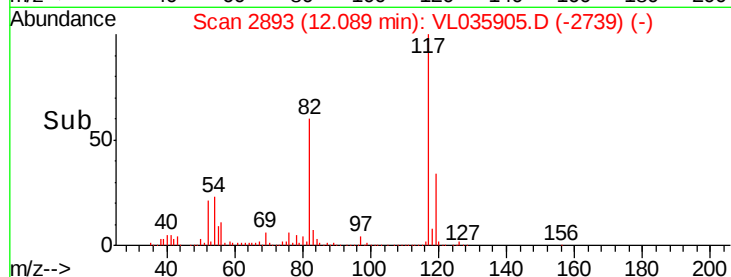
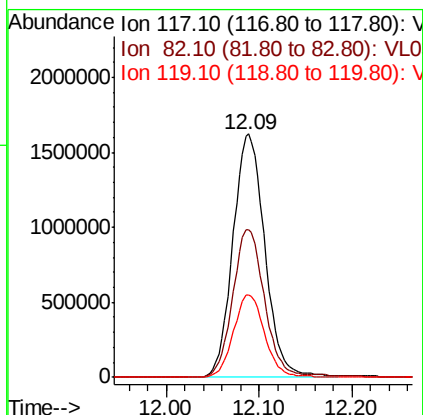
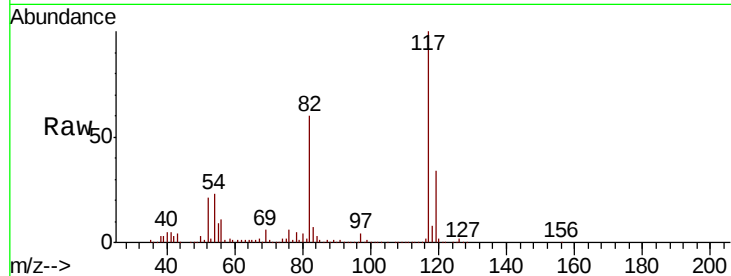
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampled :
SSSG-1

Tot Ion:117 Resp: 3878982
Ion Ratio Lower Upper
117 100
82 61.8 50.6 76.0
119 33.6 52.6 78.8#

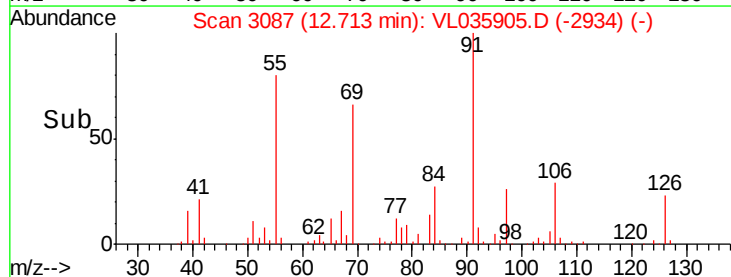
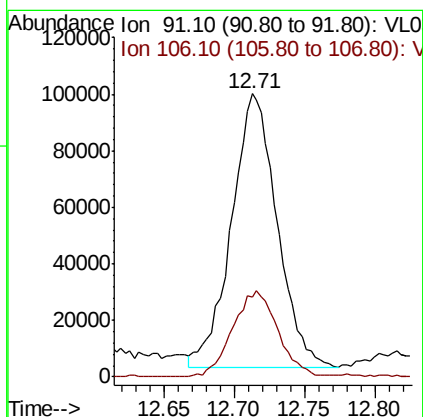
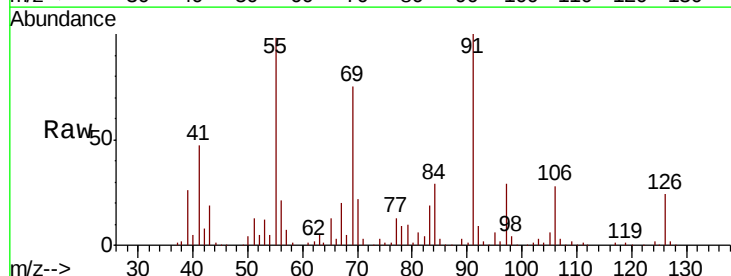
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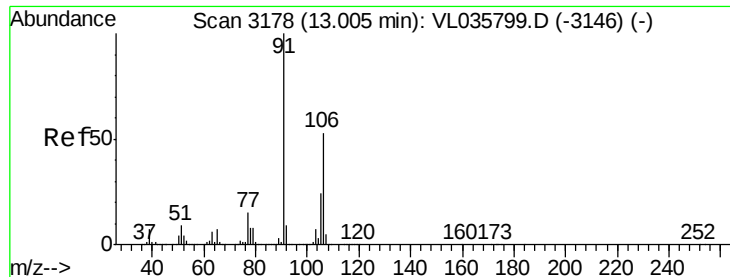
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#58
Ethyl Benzene
Concen: 0.466 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion: 91 Resp: 219985
Ion Ratio Lower Upper
91 100
106 28.7 28.6 43.0





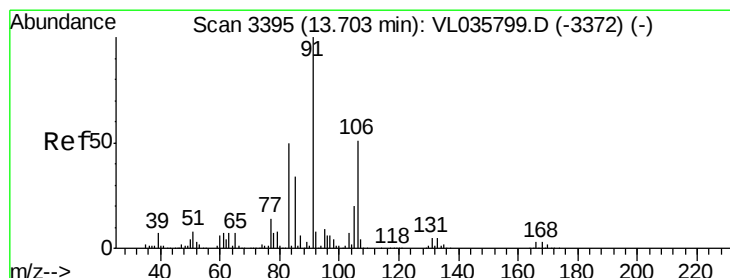
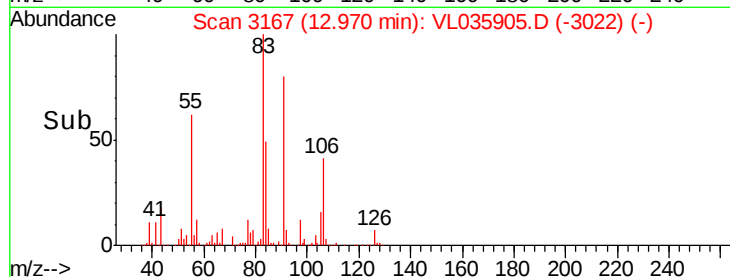
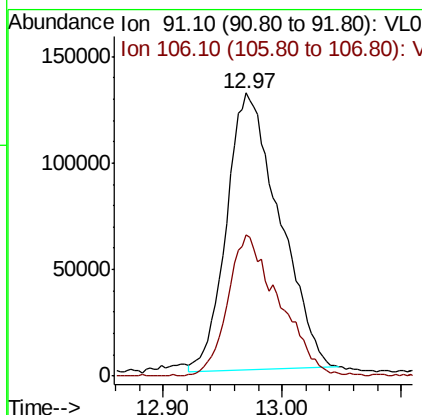
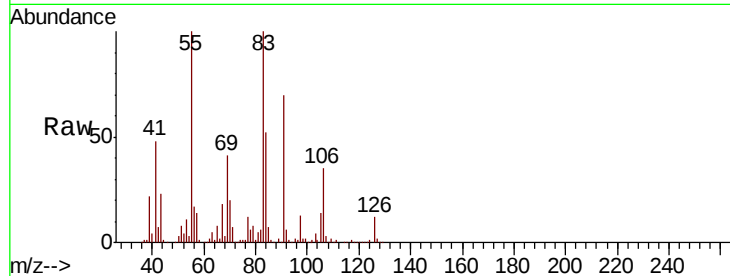
#59
m/p-Xylene
Concen: 1.000 ppbv
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Instrument :
MSVOA_L
ClientSampleId :
SSSG-1

Tot Ion	Ratio	Lower	Upper
91	100		
106	49.3	39.5	59.3

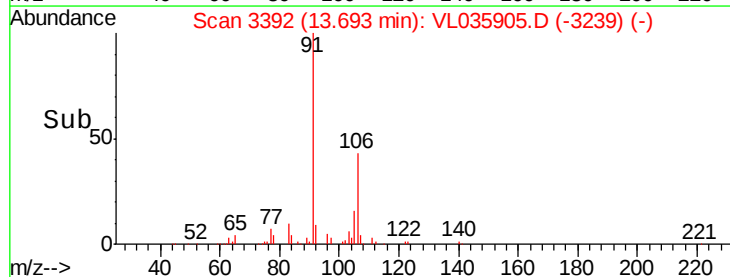
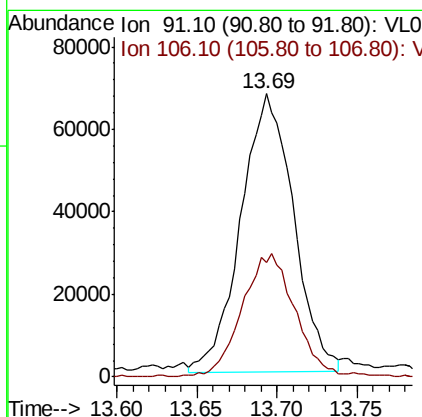
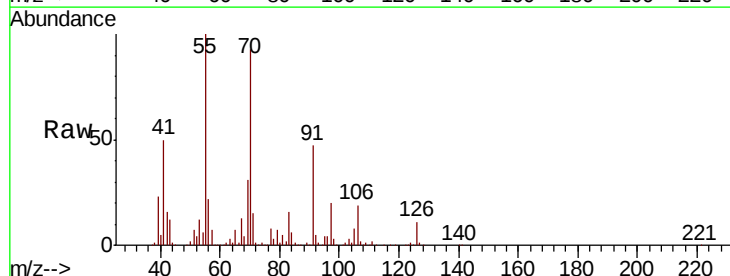
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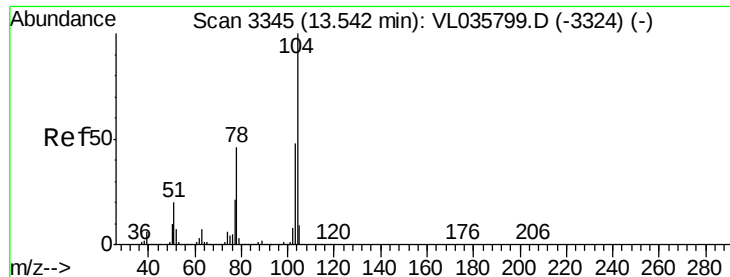
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#60
o-Xylene
Concen: 0.391 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL035905.D
Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.3	24.8	74.4





#61

Stvrene

Concen: 0.128 ppbv

RT: 13.53 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Instrument :

MSVOA_L

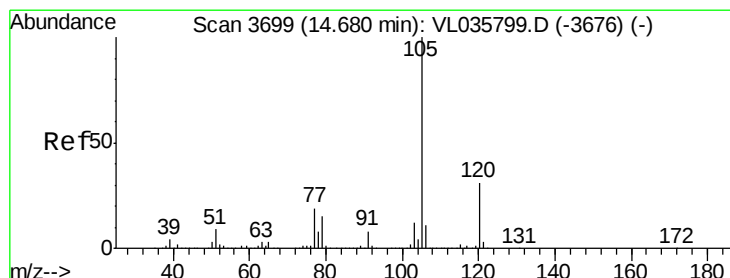
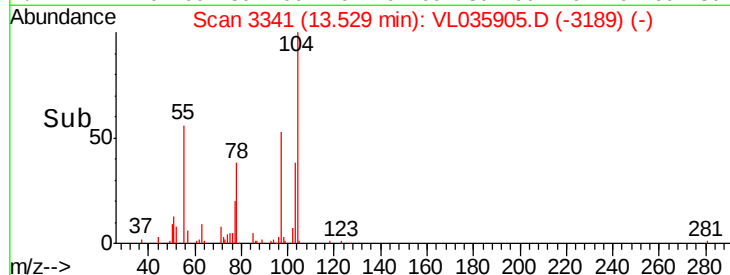
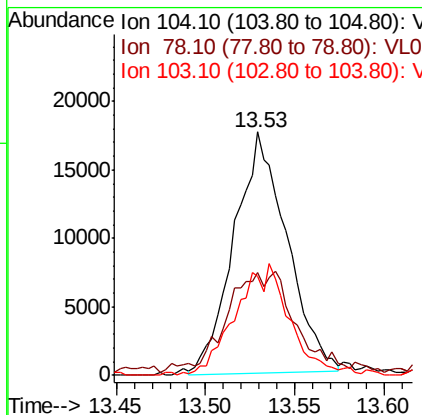
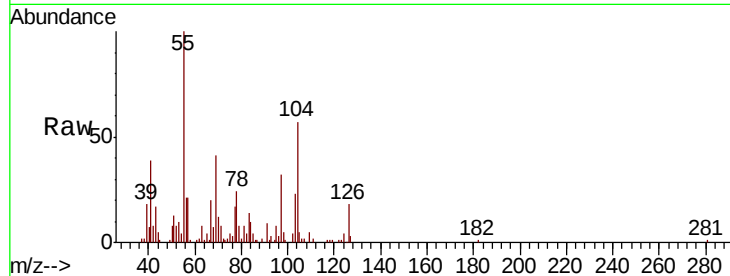
ClientSampleId :

SSSG-1

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.7	37.1	55.7#
103	47.9	37.9	56.9

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#62

Isopropylbenzene

Concen: 5.238 ppbv

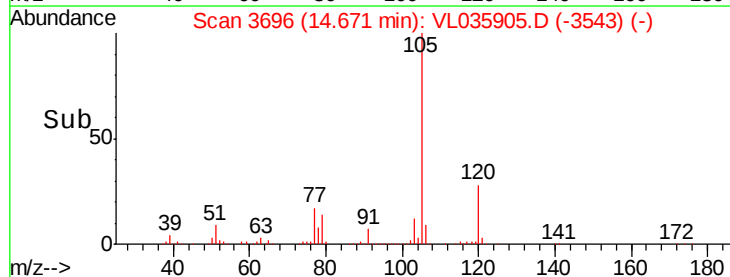
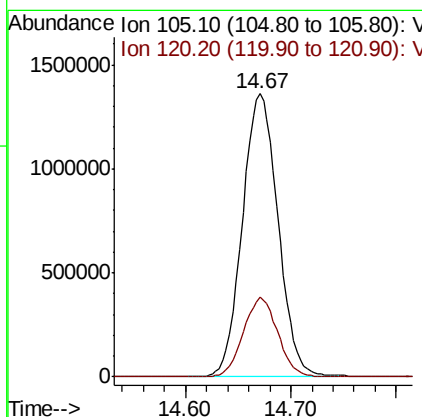
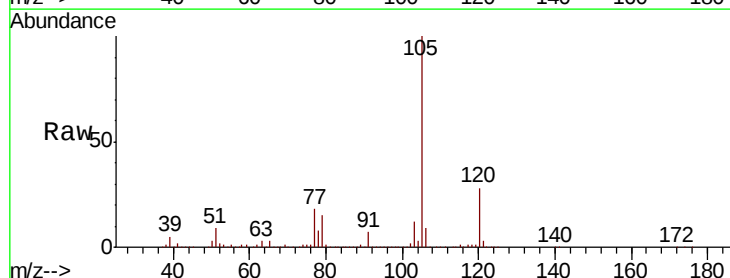
RT: 14.67 min Scan# 3696

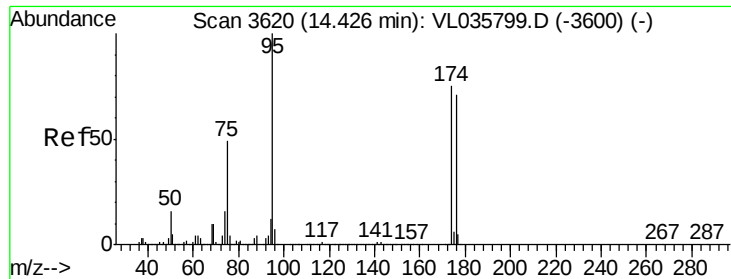
Delta R.T. -0.01 min

Lab File: VL035905.D

Acq: 11 Nov 2020 9:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	23.5	35.3





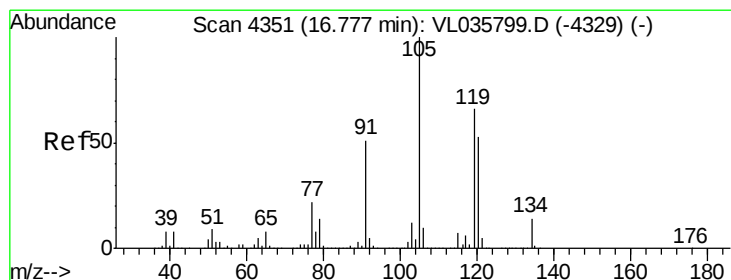
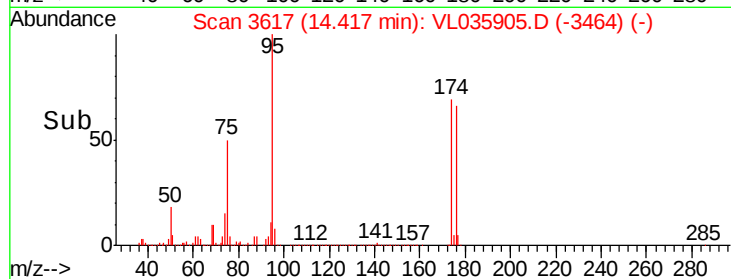
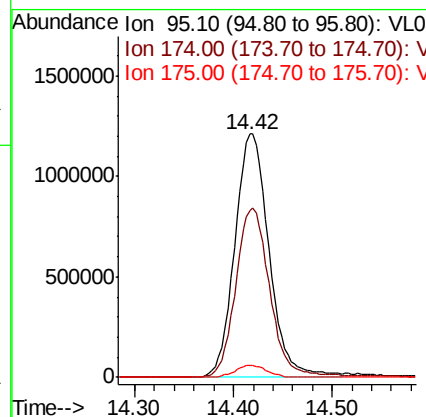
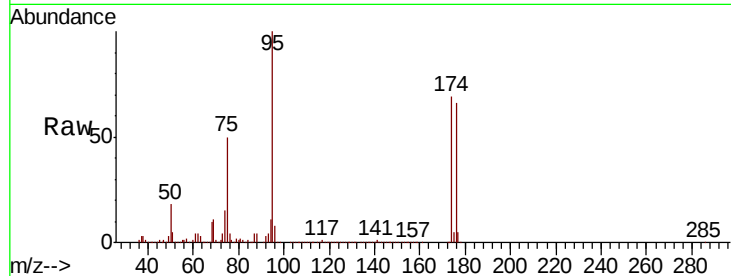
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.593 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL035905.D
 Acq: 11 Nov 2020 9:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-1

Tot Ion: 95 Resp: 2919469
 Ion Ratio Lower Upper
 95 100
 174 70.7 59.8 89.6
 175 4.9 4.3 6.5

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.261 ppbv m
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035905.D
 Acq: 11 Nov 2020 9:12

Tgt Ion: 105 Resp: 120638
 Ion Ratio Lower Upper
 105 100
 120 42.1 42.0 63.0
 91 13.1 41.0 61.6#
 77 16.1 17.3 25.9#

