

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035949.D
 Acq On : 16 Nov 2020 18:36
 Operator : SY/AP
 Sample : L4722-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-2

Manual Integrations
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 11/18/2020 2:11:23 PM

Quant Time: Nov 17 21:56:11 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	1183501	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4090825	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3834499	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2935221	10.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	58924	0.264	ppbv	99
3) Chlorodifluoromethane	2.98	51	349988m	2.469	ppbv	
4) Chloromethane	3.14	50	37517	0.545	ppbv	98
9) Propene	3.01	41	116711m	2.250	ppbv	
10) Heptane	8.13	43	53930	0.376	ppbv	97
11) Trichlorofluoromethane	3.95	101	63898	0.228	ppbv	94
13) Ethanol	3.63	45	10138610	900.905	ppbv	99
15) Acetone	3.84	43	3245479	25.650	ppbv	95
19) Isopropyl Alcohol	3.99	45	1878371	24.158	ppbv	99
20) Methylene Chloride	4.34	84	1018757	11.438	ppbv	98
26) Hexane	5.69	57	747901	5.441	ppbv #	52
29) Chloroform	5.75	83	58096	0.215	ppbv	93
30) Cyclohexane	7.16	84	31915m	0.213	ppbv	
34) 2-Butanone	5.25	43	63081	0.475	ppbv	99
35) Carbon Tetrachloride	7.01	117	15910m	0.073	ppbv	
36) Benzene	6.89	78	172989	0.569	ppbv	97
44) 2,2,4-Trimethylpentane	7.87	57	72379	0.180	ppbv #	70
52) Tetrachloroethene	11.22	164	4574m	0.032	ppbv	
53) Toluene	9.81	91	1166151	3.178	ppbv	97
58) Ethyl Benzene	12.72	91	62429	0.134	ppbv	91
59) m/p-Xylene	12.98	91	220924	0.559	ppbv	99
60) o-Xylene	13.70	91	72046m	0.187	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	57129	0.125	ppbv #	69

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

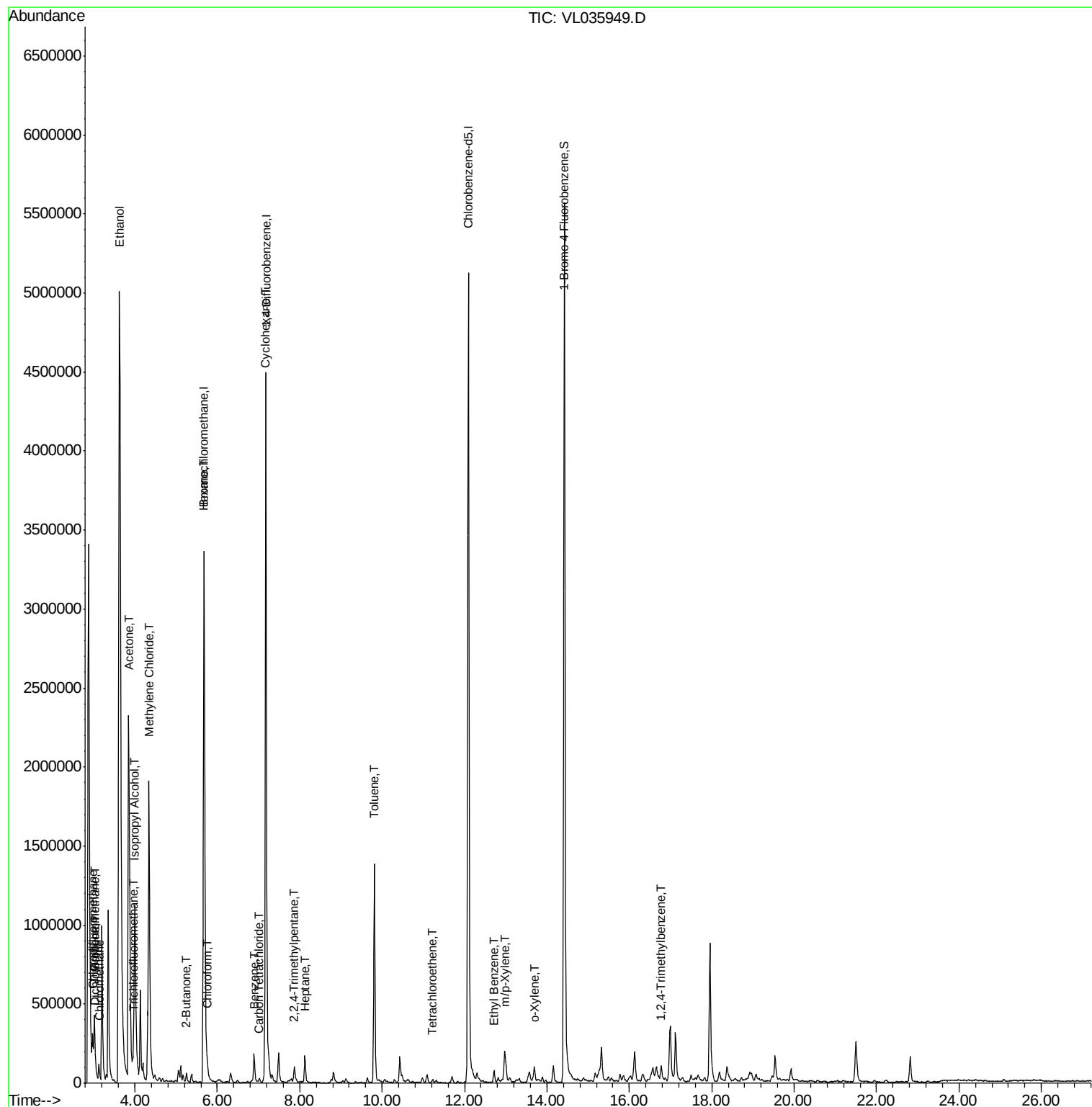
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035949.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

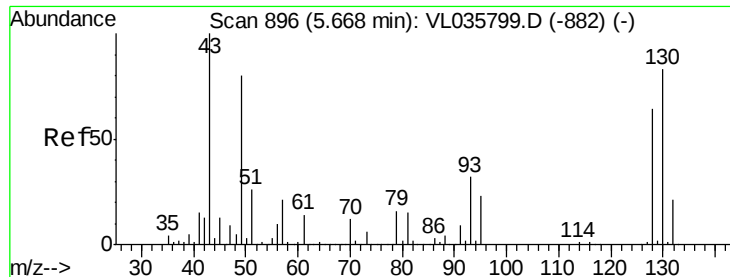
Instrument :
MSVOA_L
ClientSampleId :
SR-2

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Quant Time: Nov 17 21:56:11 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# 896

Delta R.T. -0.00 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Instrument :

MSVOA_L

ClientSampleId :

SR-2

Tot Ion: 49 Resp: 1183501

Ion Ratio Lower Upper

49 100

128 76.1 41.5 124.6

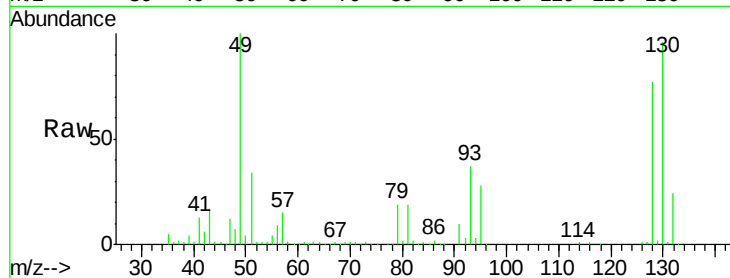
130 97.0 53.7 161.1

Manual Integrations

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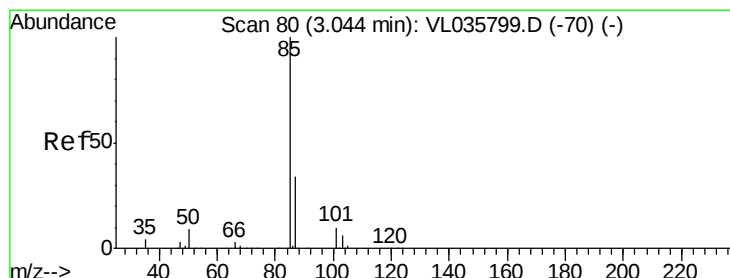
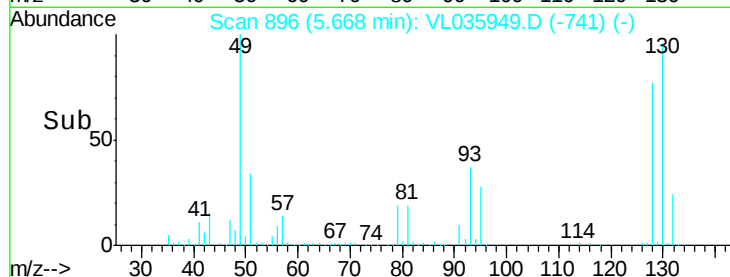
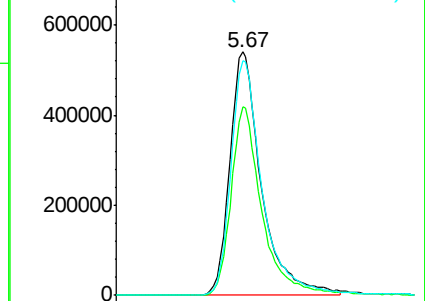
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.264 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035949.D

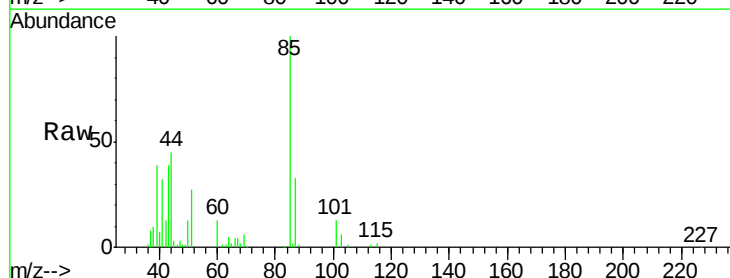
Acq: 16 Nov 2020 18:36

Tgt Ion: 85 Resp: 58924

Ion Ratio Lower Upper

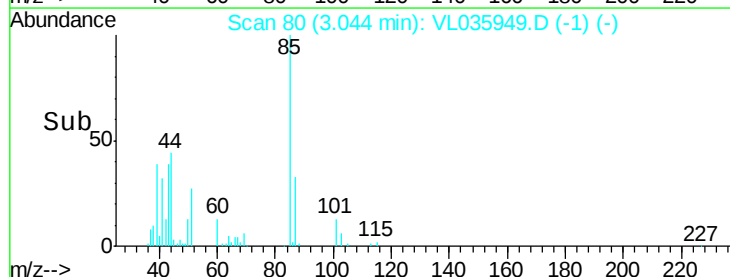
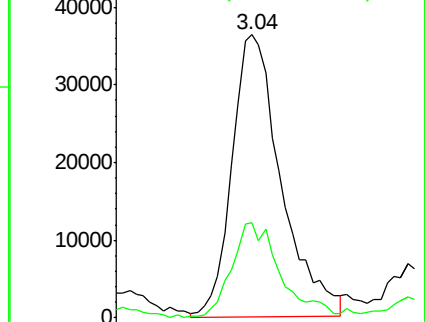
85 100

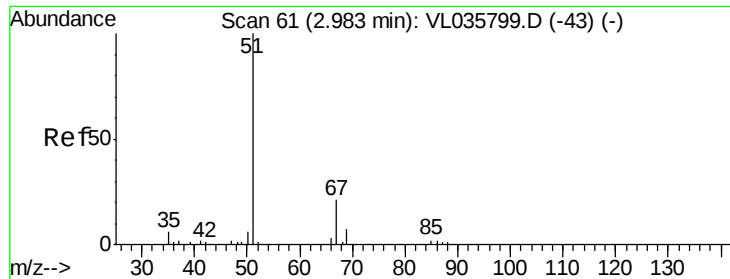
87 33.4 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

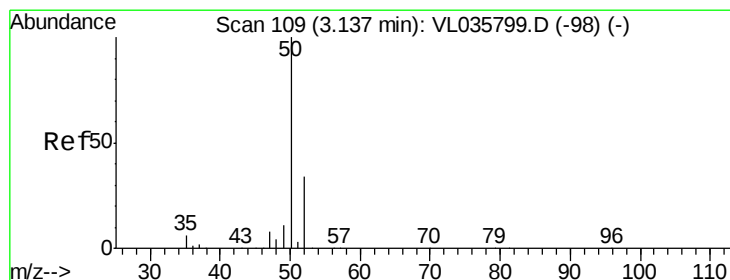
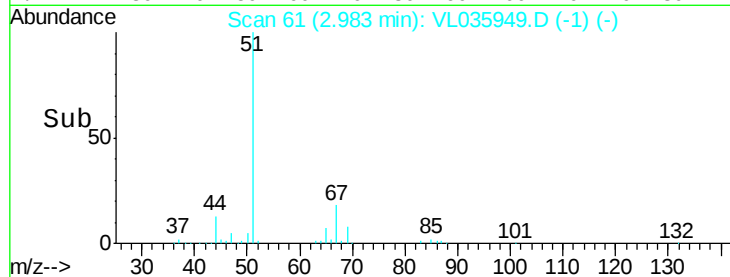
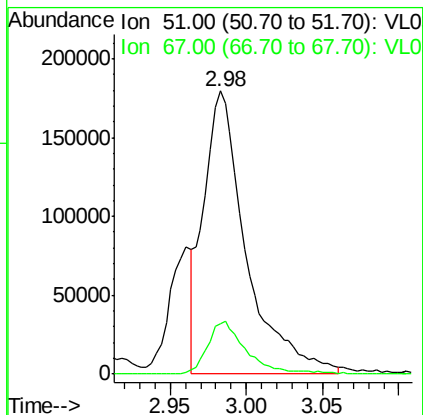
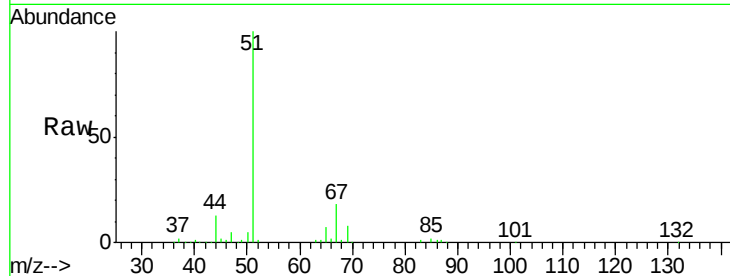
Chlorodifluoromethane
Concen: 2.469 ppbv
RT: 2.98 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
SR-2

Tot Ion	Ratio	Lower	Upper
51	100		
67	17.3	17.0	25.4

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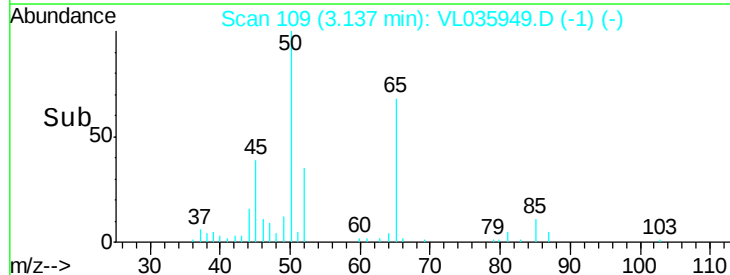
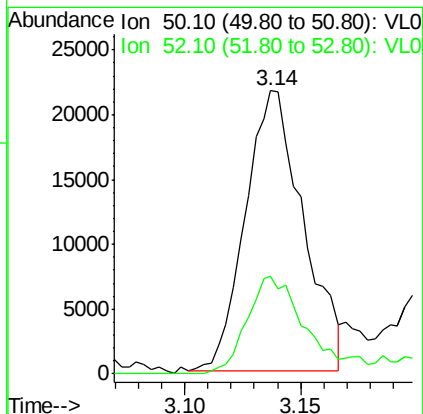
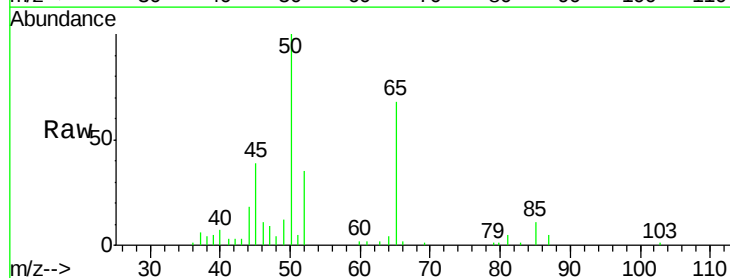
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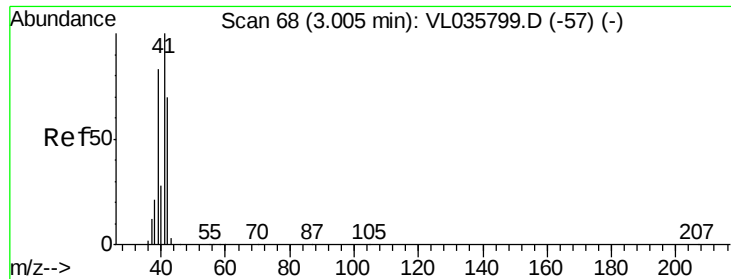


#4

Chloromethane
Concen: 0.545 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.0	27.1	40.7





#9

Propene

Concen: 2.250 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Instrument :

MSVOA_L

ClientSampleId :

SR-2

Tot Ion: 41 Resp: 116711

Ion Ratio Lower Upper

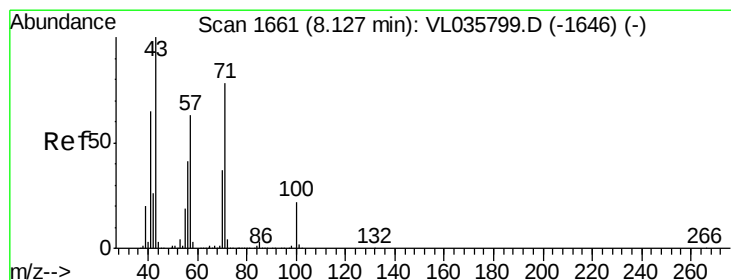
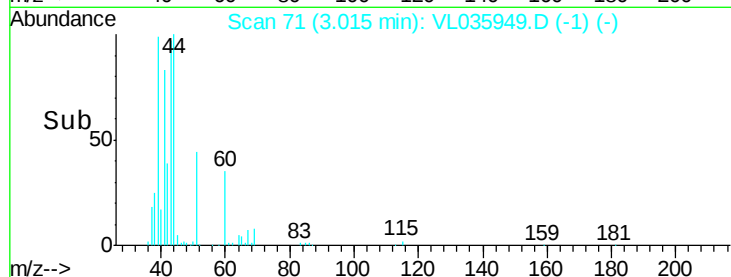
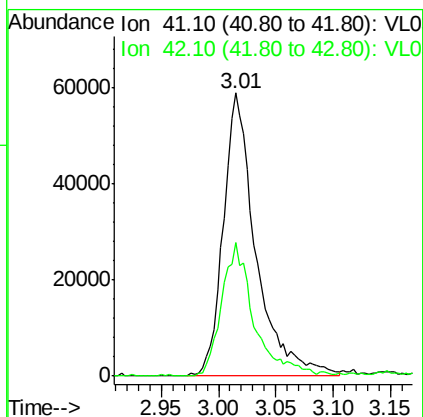
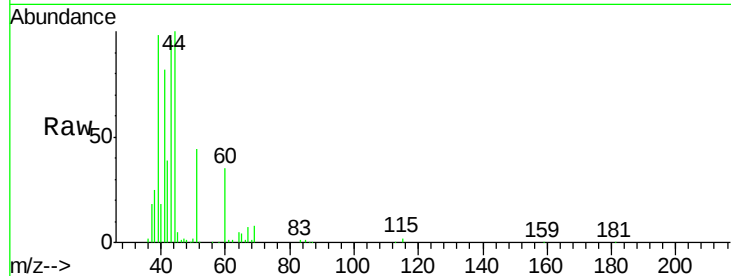
41 100

42 199.1 56.2 84.4#

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#10

Heptane

Concen: 0.376 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035949.D

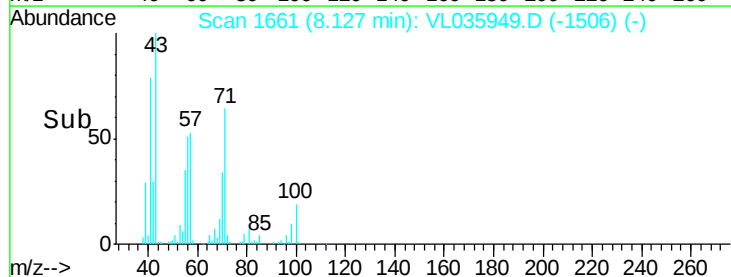
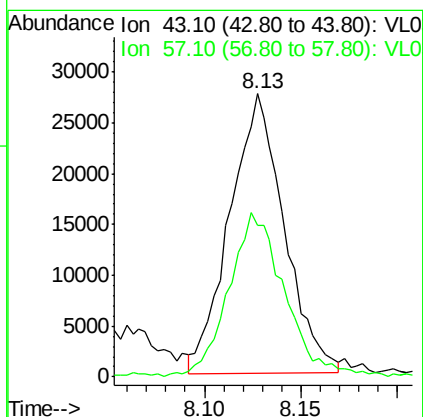
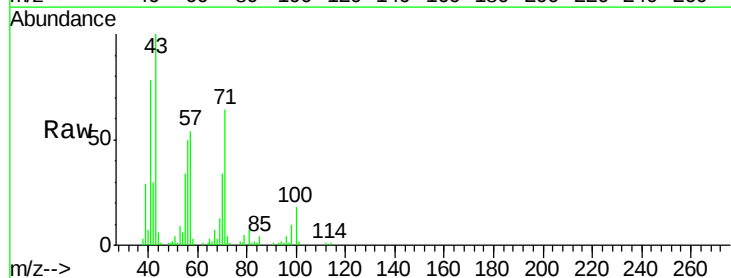
Acq: 16 Nov 2020 18:36

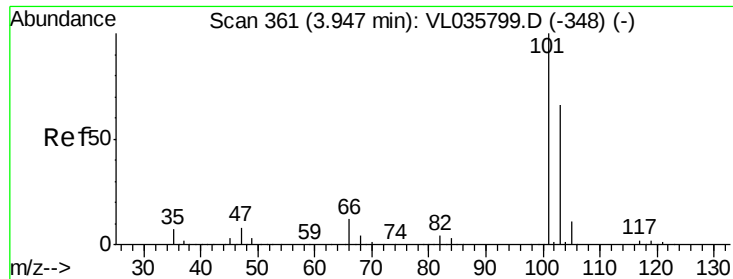
Tgt Ion: 43 Resp: 53930

Ion Ratio Lower Upper

43 100

57 60.5 50.0 75.0





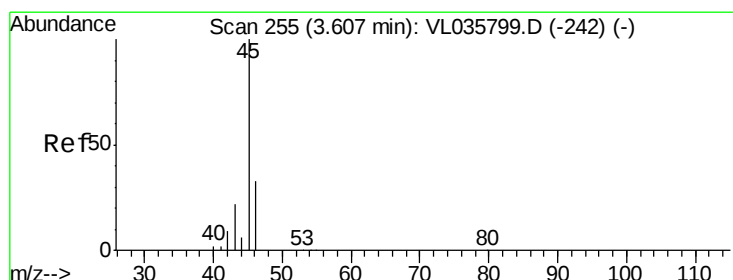
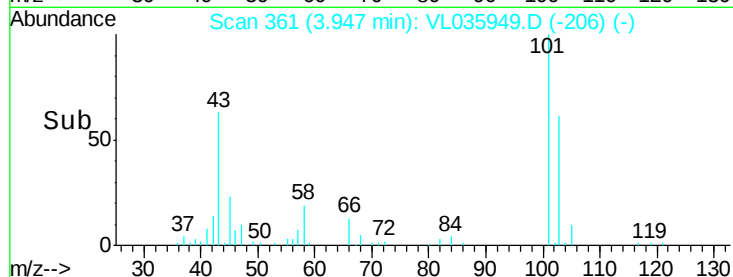
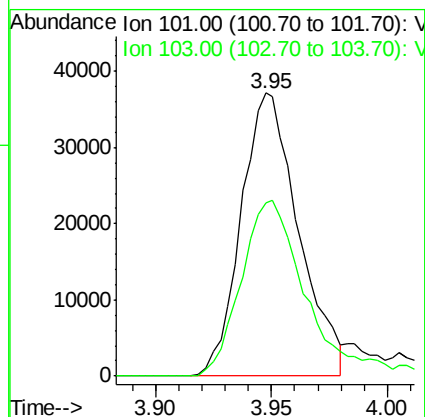
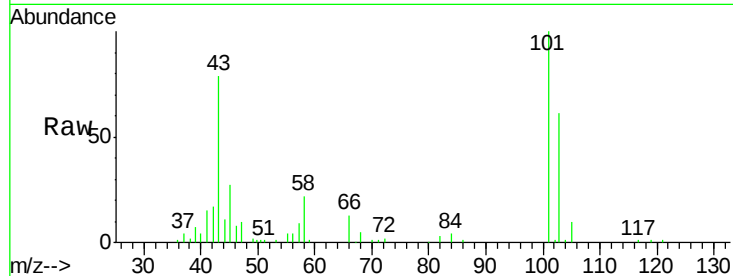
#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
SR-2

Tot Ion:101 Resp: 63898
Ion Ratio Lower Upper
101 100
103 61.3 53.0 79.4

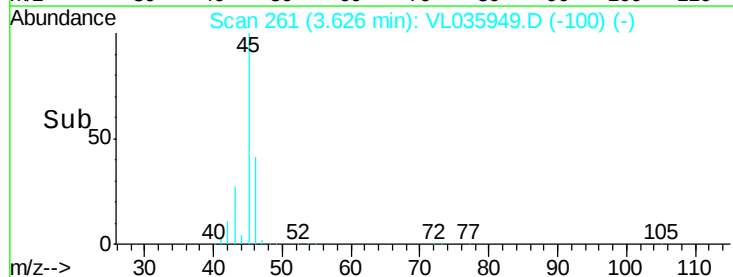
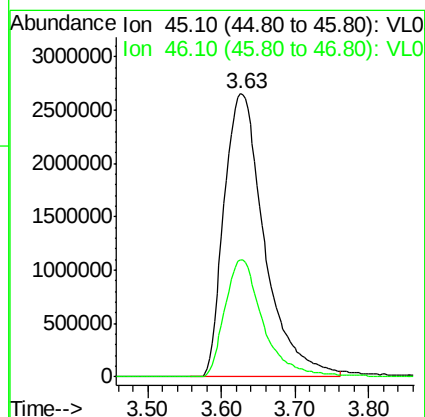
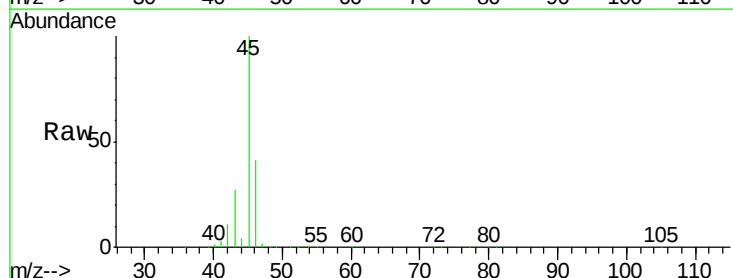
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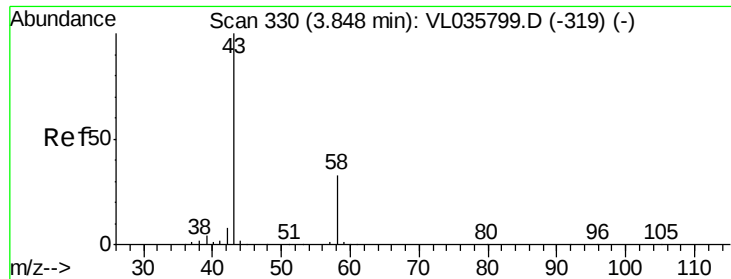
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#13
Ethanol
Concen: 900.905 ppbv
RT: 3.63 min Scan# 261
Delta R.T. 0.02 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion: 45 Resp:10138610
Ion Ratio Lower Upper
45 100
46 39.5 16.1 64.5





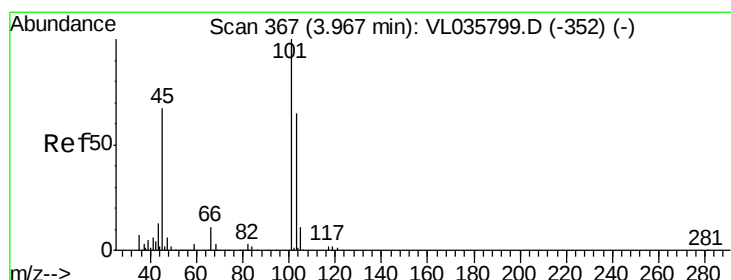
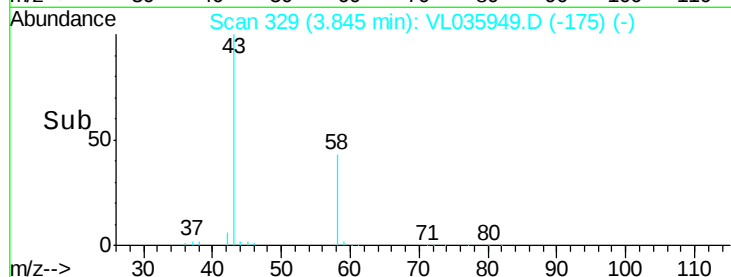
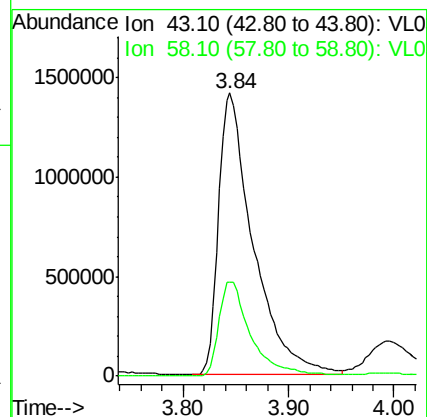
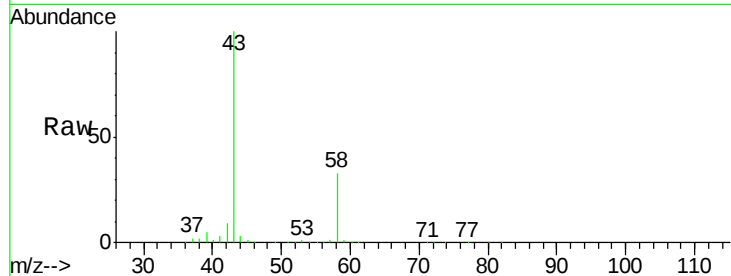
#15
Acetone
Concen: 25.650 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
SR-2

Tot Ion: 43 Resp: 3245479
Ion Ratio Lower Upper
43 100
58 31.2 27.5 41.3

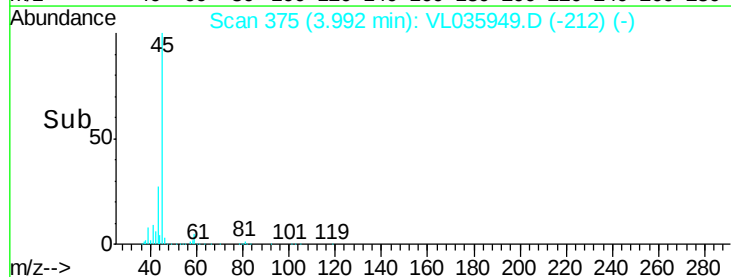
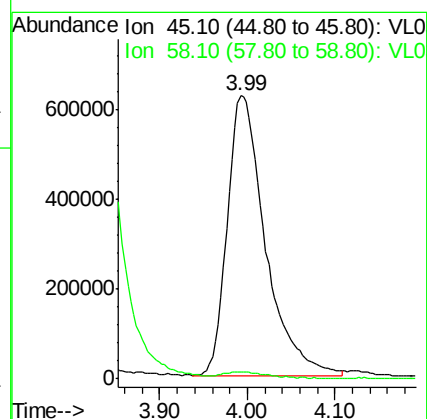
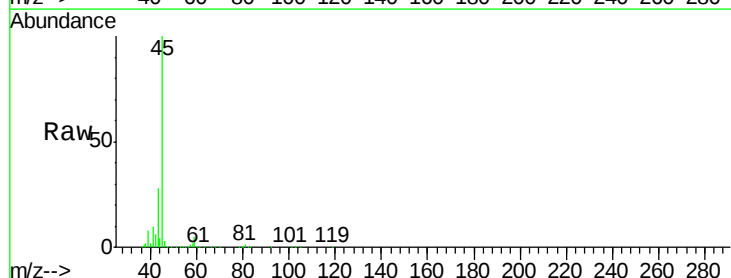
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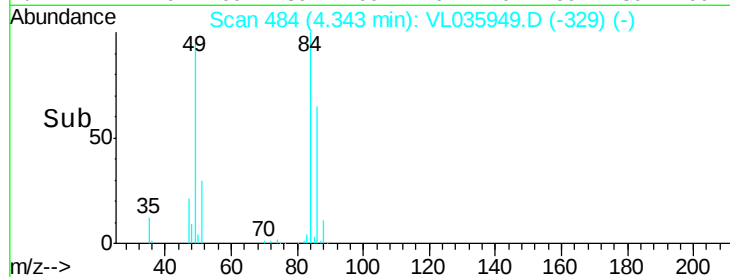
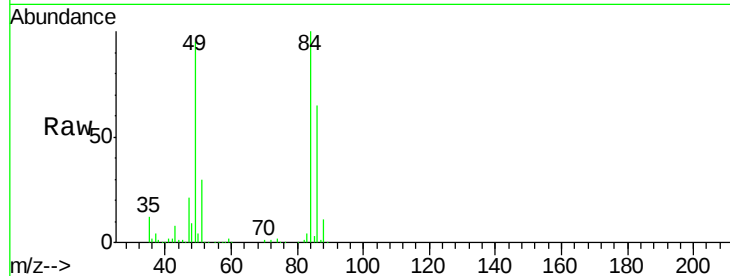
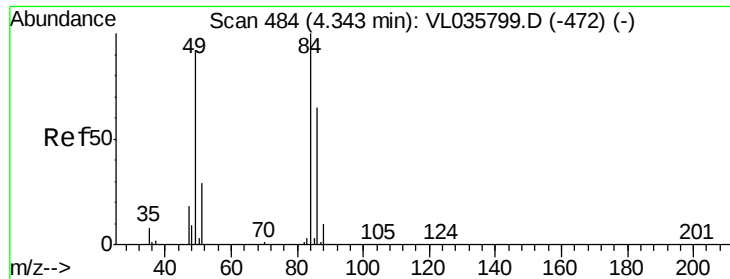
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#19
Isopropyl Alcohol
Concen: 24.158 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.03 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion: 45 Resp: 1878371
Ion Ratio Lower Upper
45 100
58 2.9 2.6 3.8





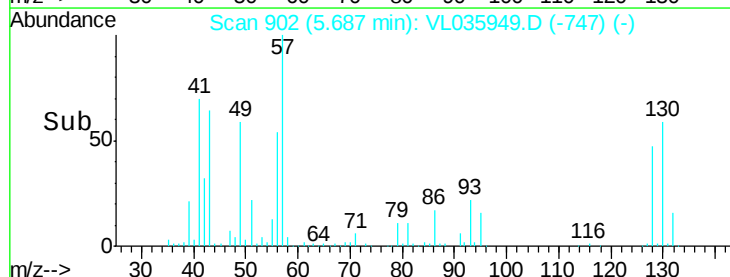
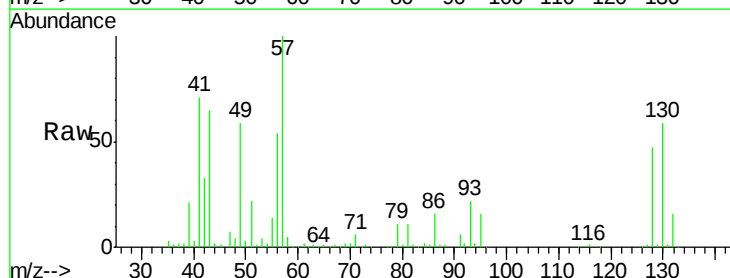
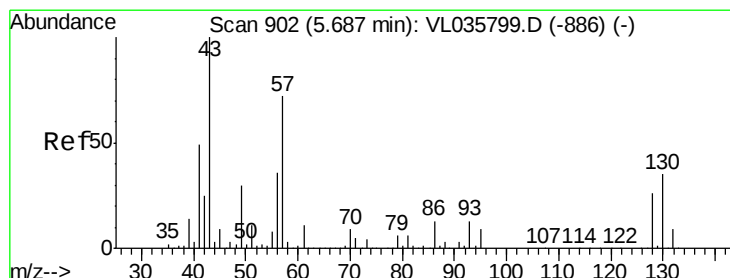
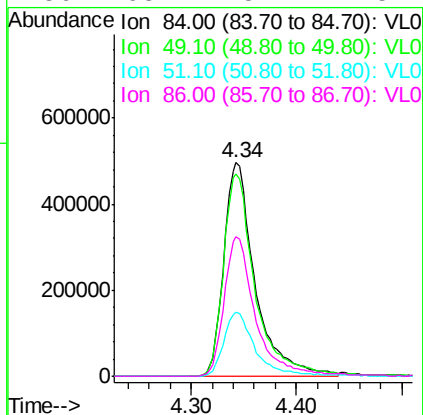
#20
Methvlene Chloride
Concen: 11.438 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tot Ion	Ratio	Lower	Upper
84	100		
49	94.8	73.8	110.8
51	30.2	23.0	34.4
86	65.4	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SR-2

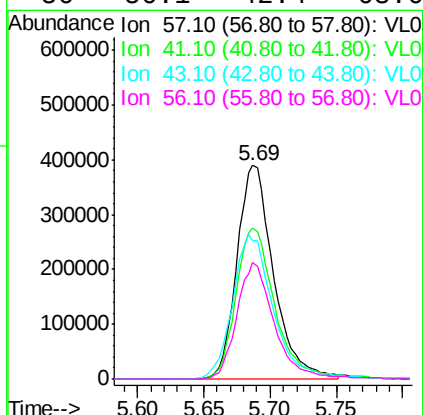
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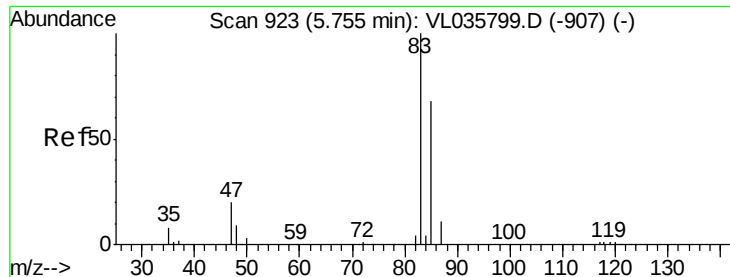
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#26
Hexane
Concen: 5.441 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	76.5	58.9	88.3
43	75.2	150.2	225.2#
56	56.1	42.4	63.6





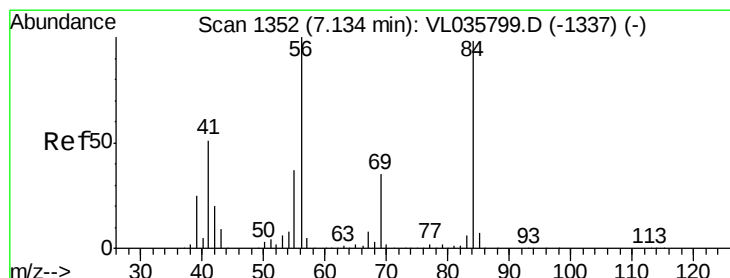
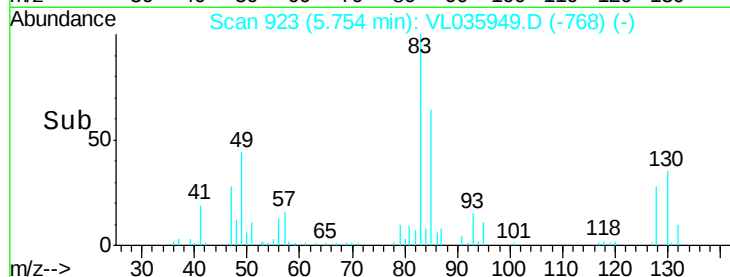
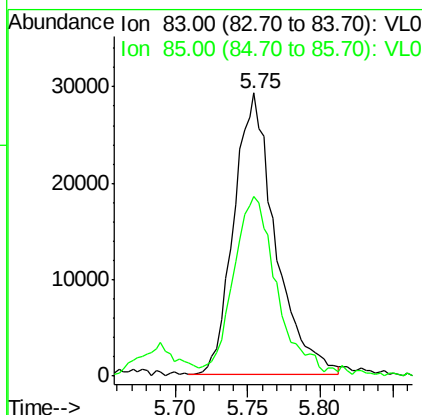
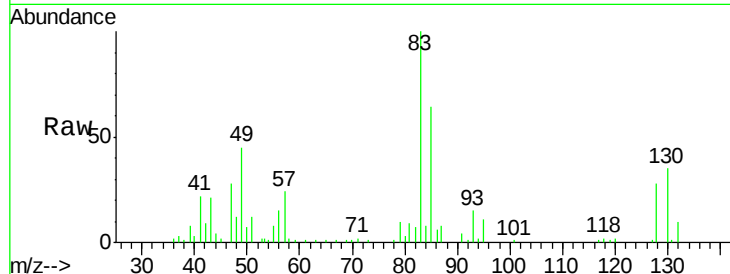
#29
Chloroform
Concen: 0.215 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Instrument :
MSVOA_L
ClientSampleId :
SR-2

Tot Ion: 83 Resp: 58096
Ion Ratio Lower Upper
83 100
85 62.3 54.6 81.8

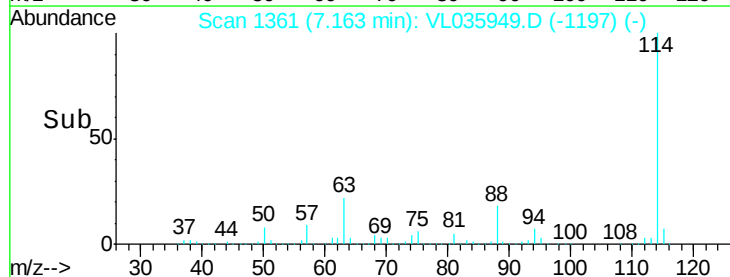
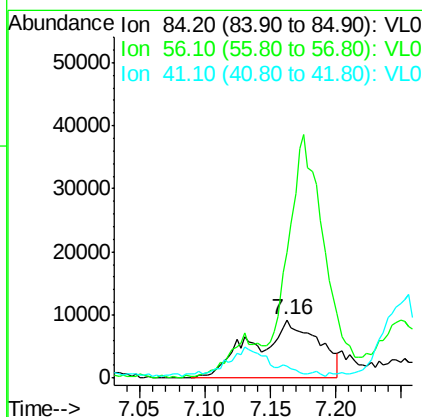
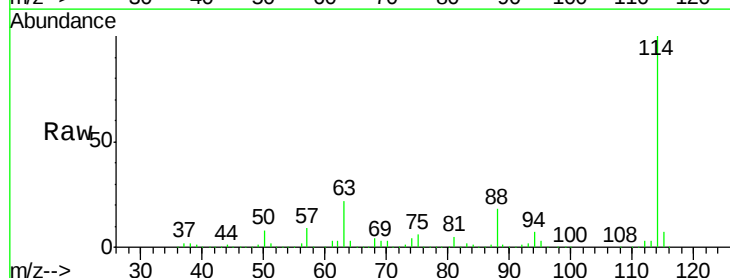
Manual Integrations
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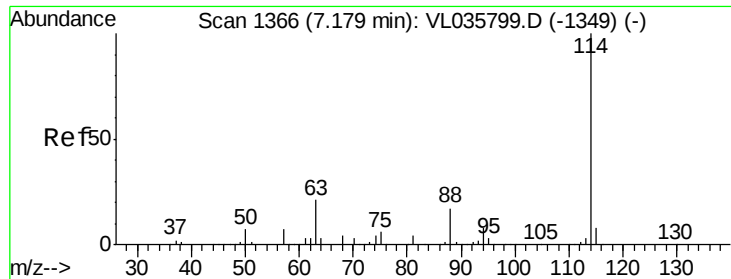
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#30
Cyclohexane
Concen: 0.213 ppbv m
RT: 7.16 min Scan# 1361
Delta R.T. 0.03 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion: 84 Resp: 31915
Ion Ratio Lower Upper
84 100
56 0.0 86.4 129.6#
41 39.1 42.1 63.1#





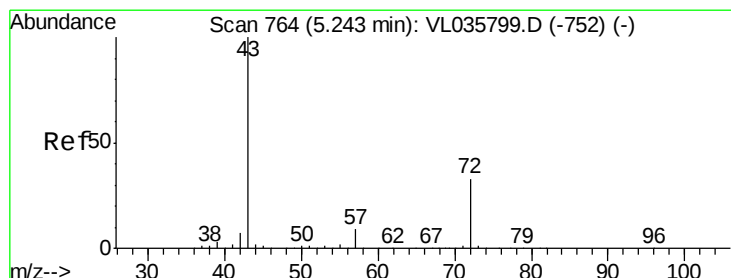
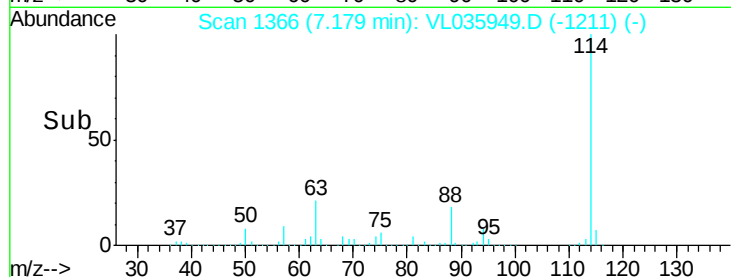
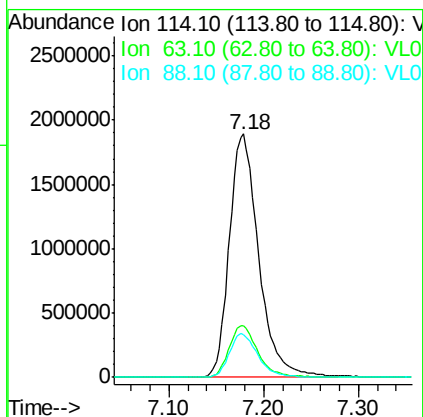
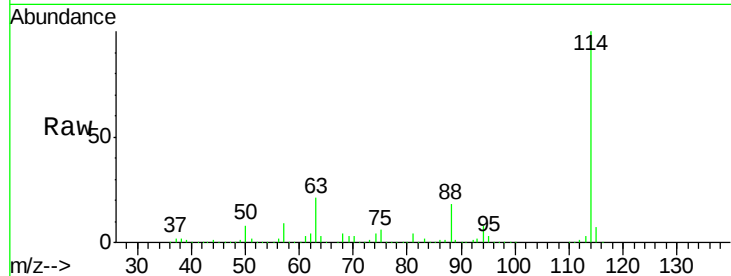
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL035949.D
 Acq: 16 Nov 2020 18:36

Instrument :
 MSVOA_L
 ClientSampled :
 SR-2

Tot Ion:114 Resp: 4090825
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.1 24.1
 88 17.5 13.7 20.5

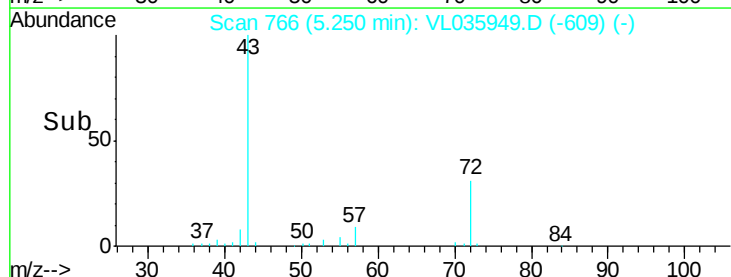
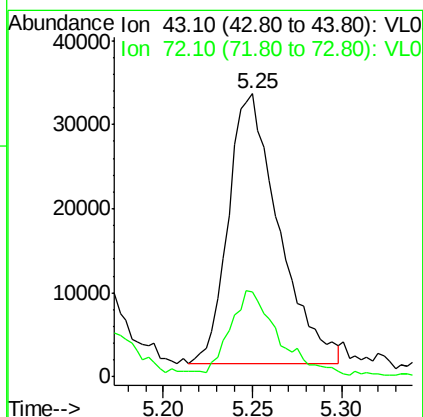
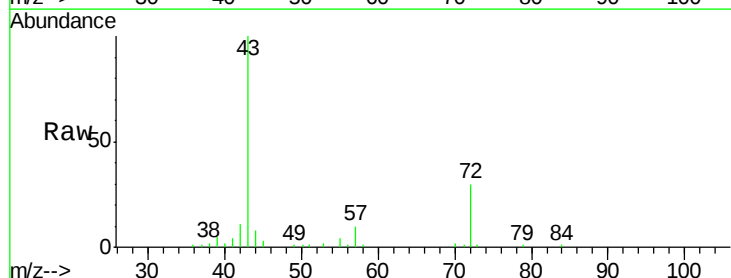
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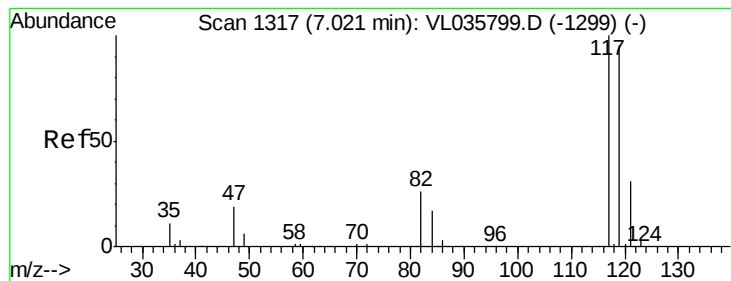
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#34
 2-Butanone
 Concen: 0.475 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL035949.D
 Acq: 16 Nov 2020 18:36

Tgt Ion: 43 Resp: 63081
 Ion Ratio Lower Upper
 43 100
 72 32.7 26.5 39.7





#35

Carbon Tetrachloride

Concen: 0.073 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Instrument :

MSVOA_L

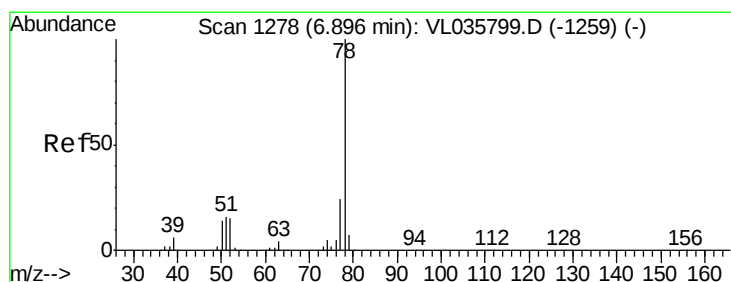
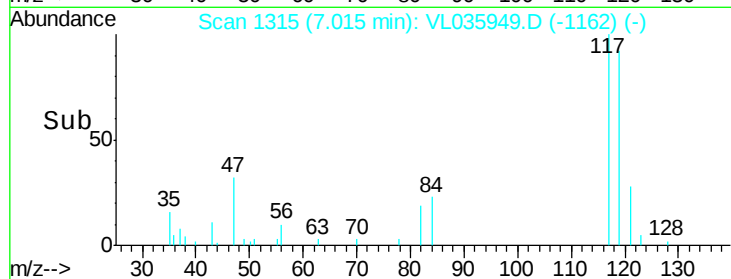
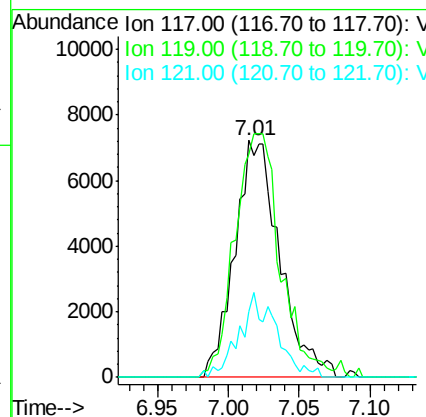
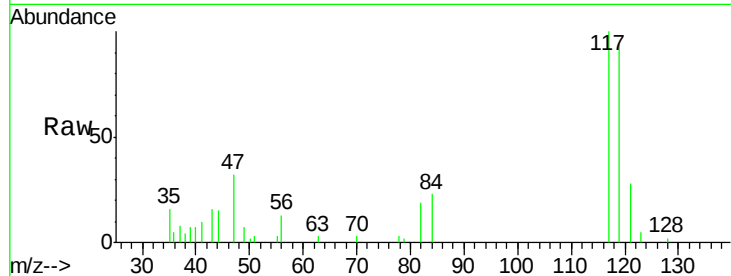
ClientSampled :

SR-2

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.6	113.4
121	28.0	25.1	37.7

Manual Integrations
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#36

Benzene

Concen: 0.569 ppbv

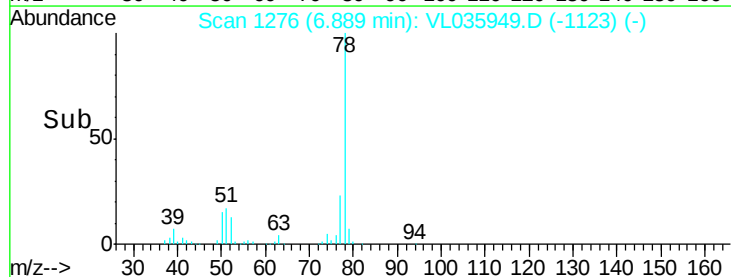
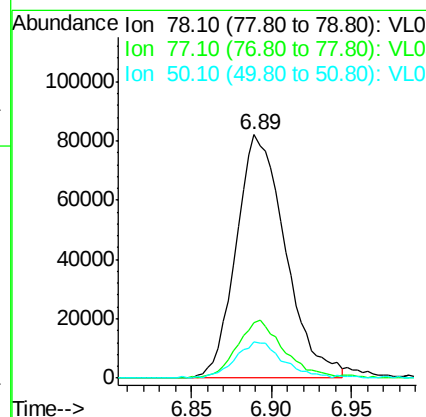
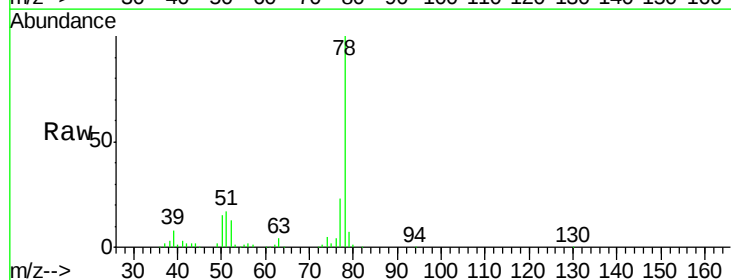
RT: 6.89 min Scan# 1276

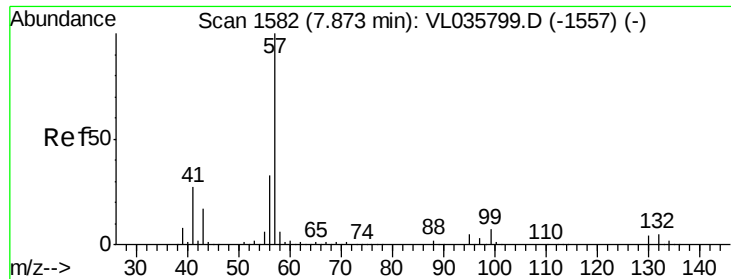
Delta R.T. -0.01 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.3	28.9
50	14.6	11.4	17.2





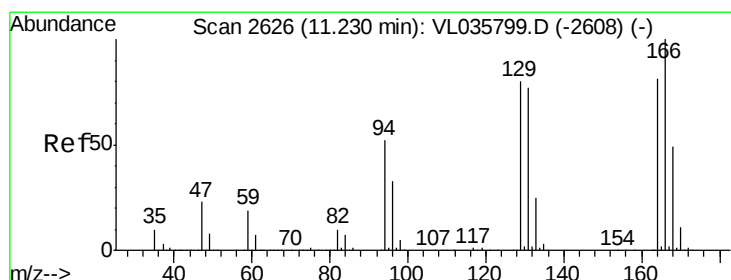
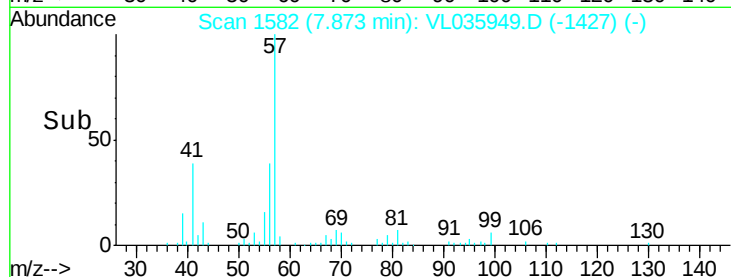
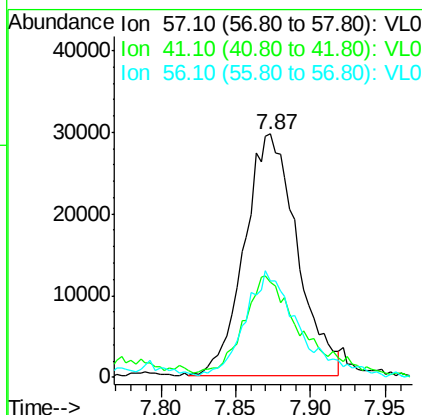
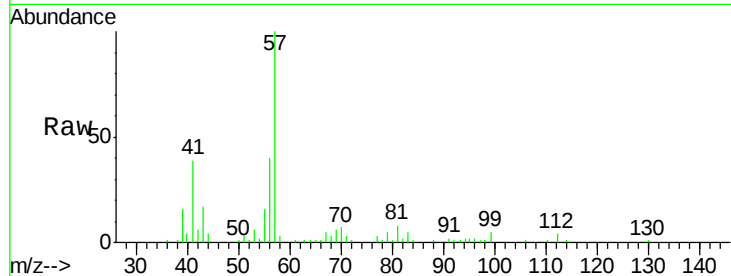
#44
 2,2,4-Trimethylpentane
 Concen: 0.180 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VL035949.D
 Acq: 16 Nov 2020 18:36

Instrument :
 MSVOA_L
 ClientSampled :
 SR-2

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.3	21.0	31.4#
56	46.0	25.4	38.0#

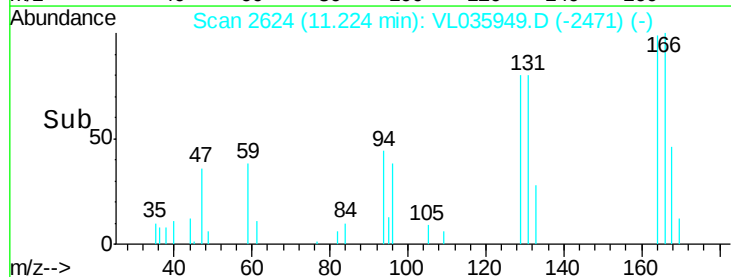
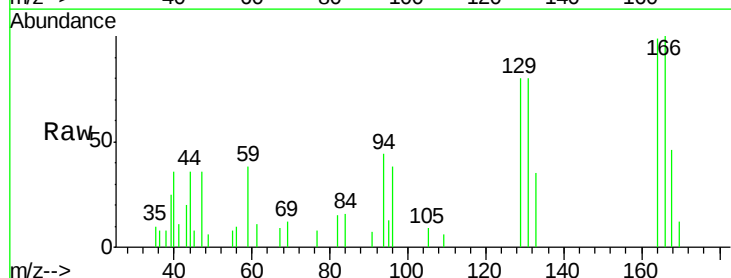
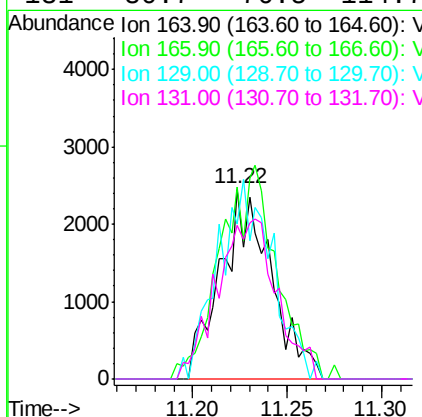
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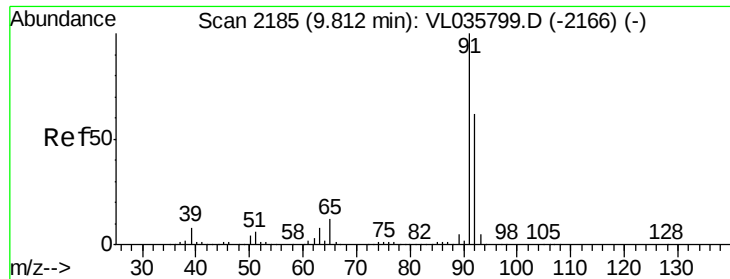
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#52
 Tetrachloroethene
 Concen: 0.032 ppbv m
 RT: 11.22 min Scan# 2624
 Delta R.T. -0.01 min
 Lab File: VL035949.D
 Acq: 16 Nov 2020 18:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	101.3	99.3	148.9
129	81.4	79.3	118.9
131	80.7	76.5	114.7





#53

Toluene

Concen: 3.178 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Instrument :

MSVOA_L

ClientSampleId :

SR-2

Tot Ion: 91 Resp: 1166151

Ion Ratio Lower Upper

91 100

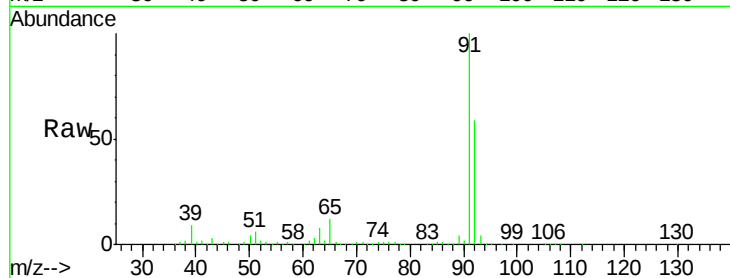
92 59.9 49.8 74.6

Manual Integrations

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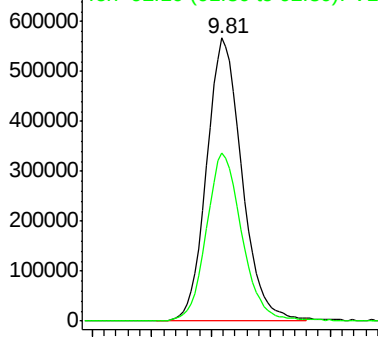
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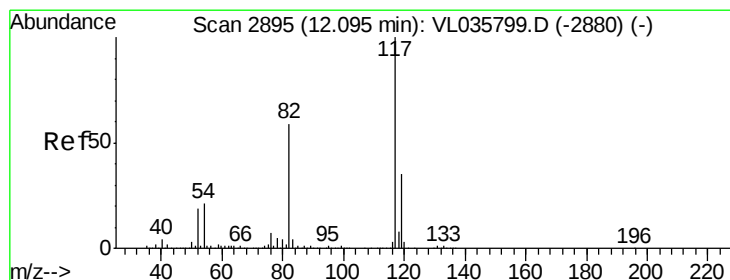
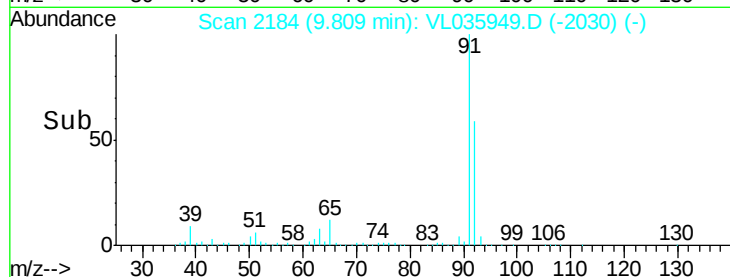


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

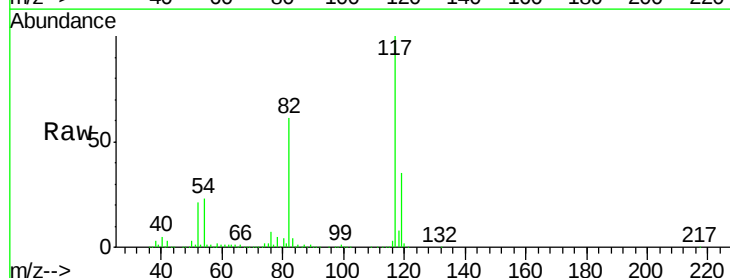
Tgt Ion: 117 Resp: 3834499

Ion Ratio Lower Upper

117 100

82 61.6 50.6 76.0

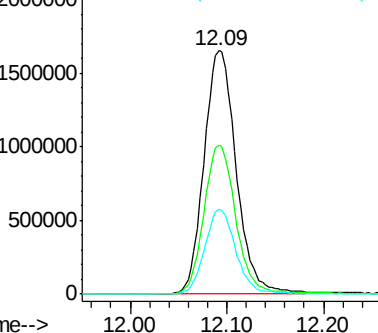
119 34.2 52.6 78.8#



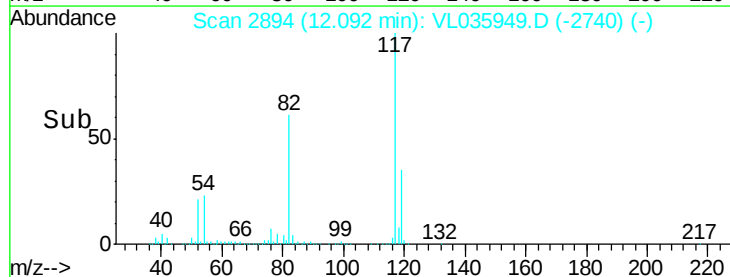
Abundance Ion 117.10 (116.80 to 117.80): V

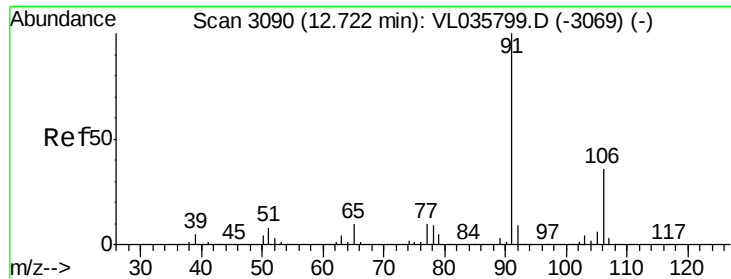
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



Time-->





#58

Ethyl Benzene

Concen: 0.134 ppbv

RT: 12.72 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL035949.D

Acq: 16 Nov 2020 18:36

Instrument :

MSVOA_L

ClientSampled :

SR-2

Tot Ion: 91 Resp: 62429

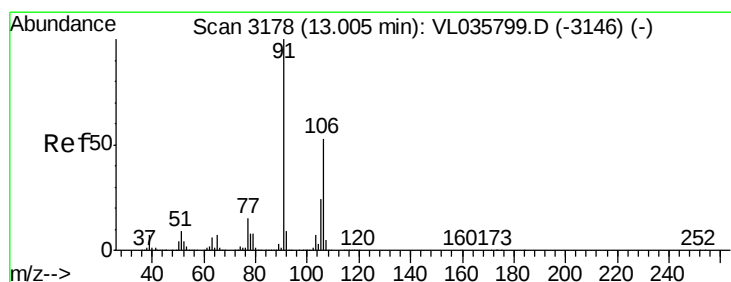
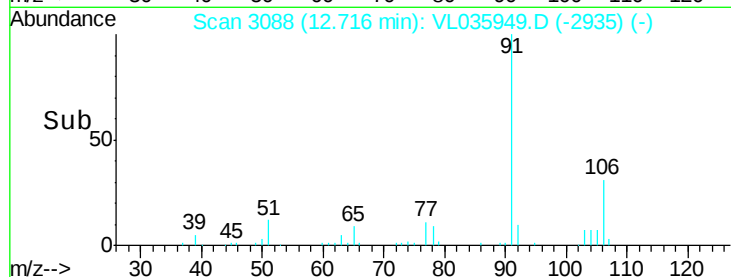
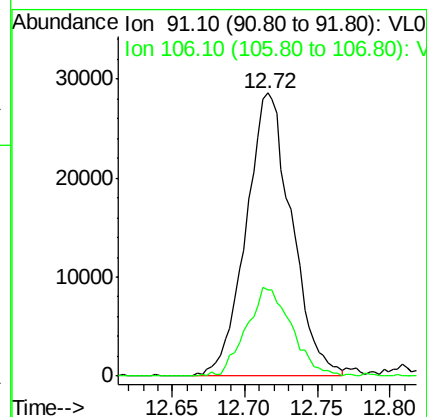
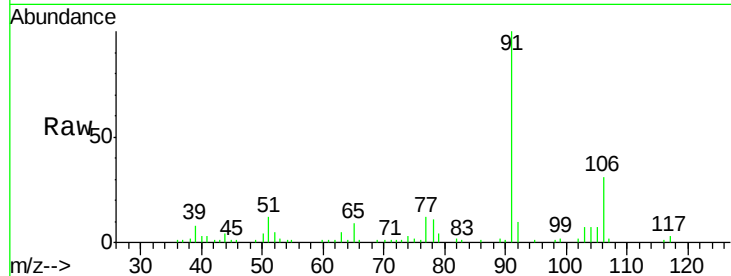
Ion Ratio Lower Upper

91 100

106 30.6 28.6 43.0

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#59

m/p-Xylene

Concen: 0.559 ppbv

RT: 12.98 min Scan# 3169

Delta R.T. -0.03 min

Lab File: VL035949.D

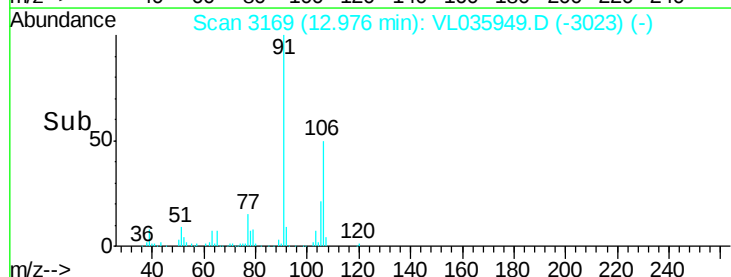
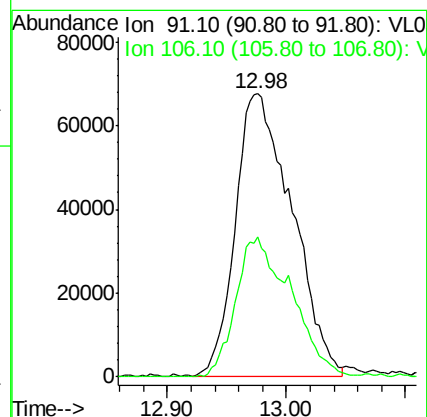
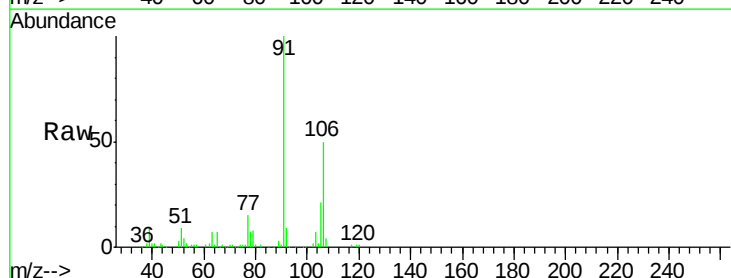
Acq: 16 Nov 2020 18:36

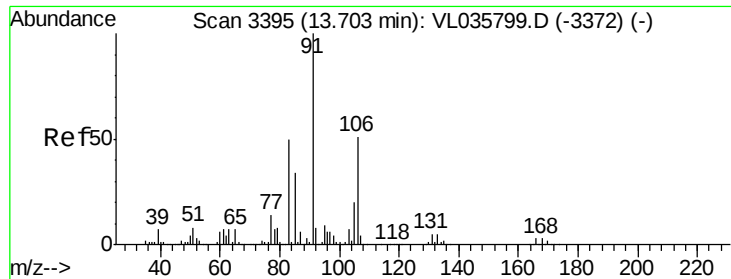
Tgt Ion: 91 Resp: 220924

Ion Ratio Lower Upper

91 100

106 48.5 39.5 59.3





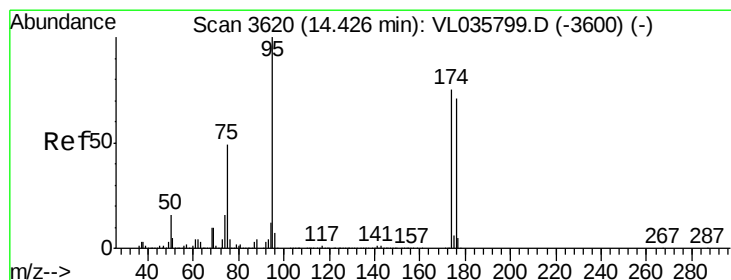
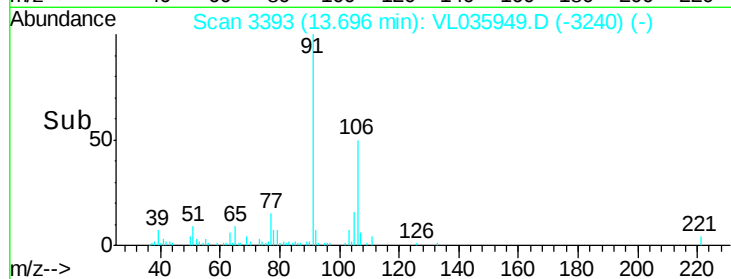
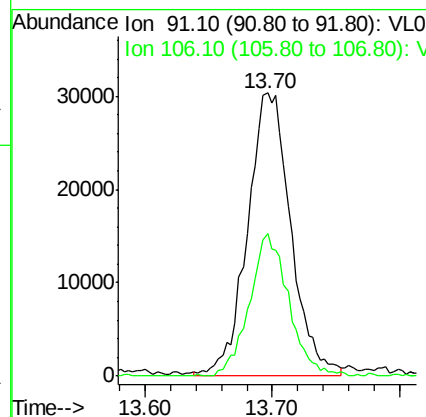
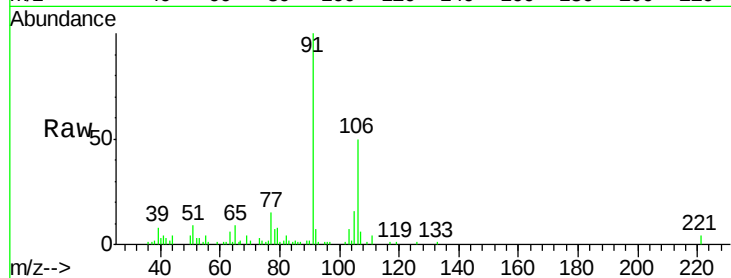
#60
o-Xylene
Concen: 0.187 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Instrument :
MSVOA_L
ClientSampled :
SR-2

Tot Ion: 91 Resp: 72046
Ion Ratio Lower Upper
91 100
106 45.6 24.8 74.4

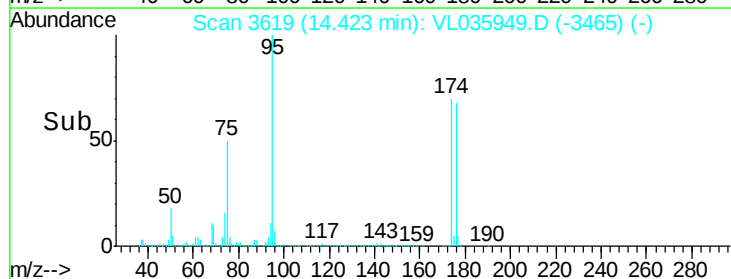
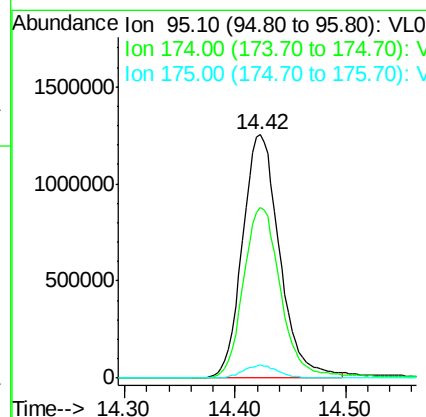
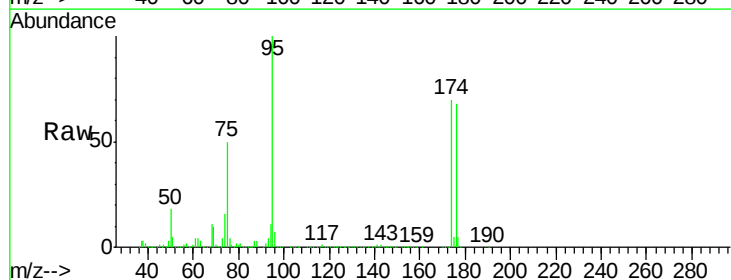
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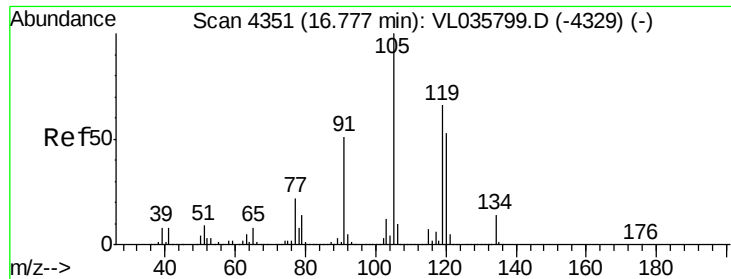
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.774 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL035949.D
Acq: 16 Nov 2020 18:36

Tgt Ion: 95 Resp: 2935221
Ion Ratio Lower Upper
95 100
174 72.2 59.8 89.6
175 5.2 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv
 RT: 16.77 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL035949.D
 Acq: 16 Nov 2020 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-2

Tot Ion:	105	Resp:	57129
Ion Ratio		Lower	Upper
105	100		
120	41.7	42.0	63.0#
91	11.4	41.0	61.6#
77	17.4	17.3	25.9

Manual Integrations
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