

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070820\
 Data File : VL035178.D
 Acq On : 8 Jul 2020 10:43
 Operator : SY/AP
 Sample : L3190-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

Quant Time: Jul 08 12:56:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 08 07:05:23 2020
 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1009934	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2312185	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2375238	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1979530	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.00	85	29959	0.212	ppbv	96
3) Chlorodifluoromethane	2.92	51	626403	5.615	ppbv #	59
4) Chloromethane	3.10	50	19023	0.303	ppbv	91
5) Vinyl Chloride	2.97	62	1500898	22.339	ppbv #	49
7) Chloroethane	3.52	64	734	0.031	ppbv	94
9) Propene	2.96	41	715255	16.966	ppbv	94
10) Heptane	8.13	43	5150	0.048	ppbv #	26
11) Trichlorofluoromethane	3.92	101	26625	0.167	ppbv #	82
13) Ethanol	3.57	45	957375	71.326	ppbv	92
15) Acetone	3.81	43	7688065	56.229	ppbv #	76
16) 1,3-Butadiene	3.31	39	24451	0.466	ppbv #	7
17) tert-Butyl alcohol	4.27	59	1634474	13.510	ppbv	99
18) 1,1-Dichloroethene	4.26	96	2891	0.058	ppbv #	84
19) Isopropyl Alcohol	3.94	45	522442	6.334	ppbv #	92
20) Methylene Chloride	4.32	84	5862009	98.534	ppbv #	86
21) Allyl Chloride	4.31	41	329914	4.146	ppbv #	21
22) trans-1,2-Dichloroethene	4.86	96	1934	0.039	ppbv	91
23) Vinyl Acetate	5.04	43	418658	2.829	ppbv #	84
25) Ethyl Acetate	5.67	43	2863876	13.497	ppbv #	80
26) Hexane	5.67	57	3507877	37.496	ppbv #	46
27) Carbon Disulfide	4.52	76	1776388	13.598	ppbv	99
29) Chloroform	5.75	83	12948	0.083	ppbv	87
30) Cyclohexane	7.13	84	7038	0.102	ppbv #	6
34) 2-Butanone	5.23	43	313863	2.543	ppbv	99
36) Benzene	6.89	78	3930757	23.489	ppbv	100
37) 1,2-Dichloroethane	6.31	62	17274	0.154	ppbv	97
39) 1,2-Dichloropropane	7.62	63	17438	0.262	ppbv	93
41) Tetrahydrofuran	5.67	42	1339529	21.692	ppbv #	47
42) Bromodichloromethane	7.80	83	5117	0.034	ppbv #	73
44) 2,2,4-Trimethylpentane	7.88	57	45810	0.159	ppbv #	11
51) 2-Hexanone	10.16	43	19427	0.144	ppbv #	57
52) Tetrachloroethene	11.25	164	6160	0.099	ppbv #	73
53) Toluene	9.82	91	602970	3.414	ppbv	99
54) 1,2-Dibromoethane	10.63	107	4817	0.045	ppbv	83
58) Ethyl Benzene	12.73	91	50313	0.192	ppbv	95
59) m/p-Xylene	13.02	91	35854	0.153	ppbv #	31
60) o-Xylene	13.72	91	69565	0.298	ppbv	92
61) Styrene	13.56	104	19257	0.133	ppbv #	46
62) Isopropylbenzene	14.70	105	325399	0.940	ppbv	97
65) tert-Butylbenzene	16.79	119	15941	0.051	ppbv #	1
67) sec-Butylbenzene	17.33	105	13630	0.030	ppbv #	63

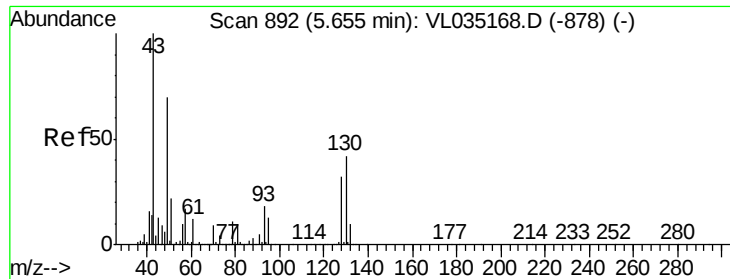
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070820\
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Quant Time: Jul 08 12:56:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070820AIR.M
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 QLast Update : Wed Jul 08 07:05:23 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	17.69	119	46195	0.130	ppbv #	38
72) 4-Ethyltoluene	15.87	105	26238	0.100	ppbv #	65
73) 1,3,5-Trimethylbenzene	16.03	105	49225	0.194	ppbv	91
74) 1,2,4-Trimethylbenzene	16.80	105	147889	0.528	ppbv #	65
75) 1,3-Dichlorobenzene	17.04	146	8445	0.048	ppbv #	22
76) 1,4-Dichlorobenzene	17.18	146	10697	0.065	ppbv #	23
77) 1,2-Dichlorobenzene	17.86	146	8742	0.055	ppbv #	14
78) Hexachloro-1,3-Butadiene	23.42	225	19775	0.157	ppbv #	19
79) Naphthalene	22.26	128	70869	0.391	ppbv	99
80) Naphthalene,2-methyl-	24.84	142	84712	1.977	ppbv	98
81) 1,2,4-Trichlorobenzene	21.97	180	5357	0.047	ppbv #	12

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

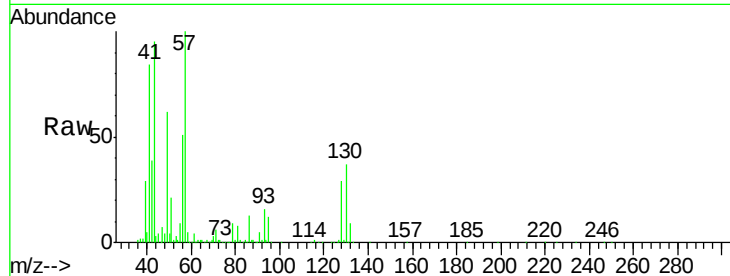
Tgt Ion: 49 Resp: 1009934

Ion Ratio Lower Upper

49 100

128 46.2 23.8 71.4

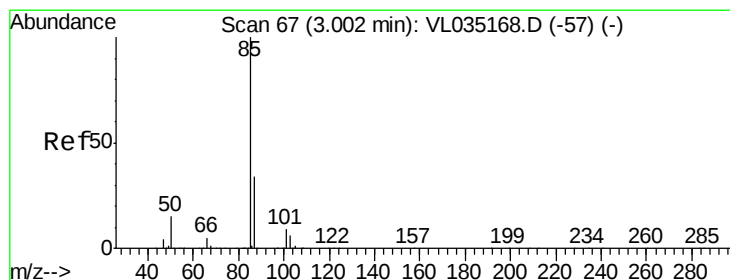
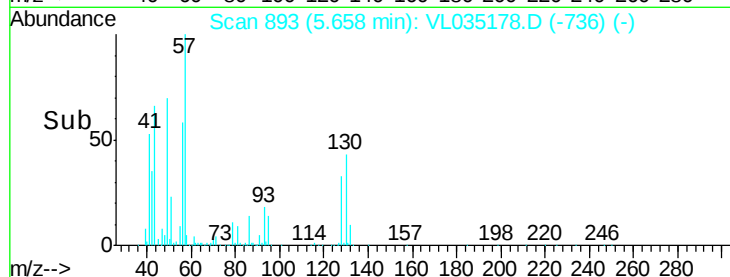
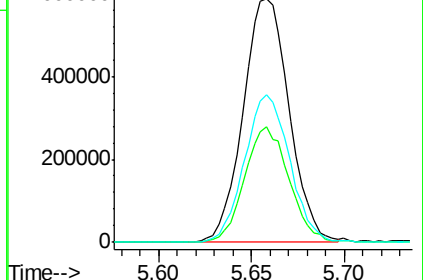
130 60.0 29.9 89.8



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: 0.212 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VL035178.D

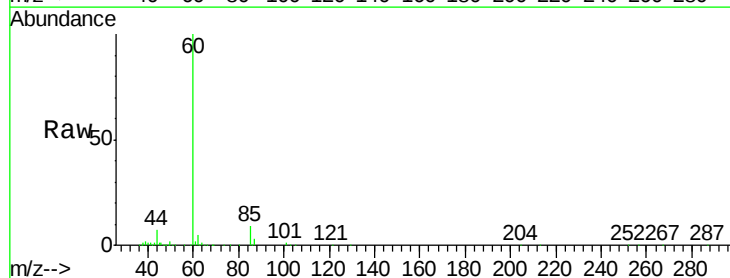
Acq: 8 Jul 2020 10:43

Tgt Ion: 85 Resp: 29959

Ion Ratio Lower Upper

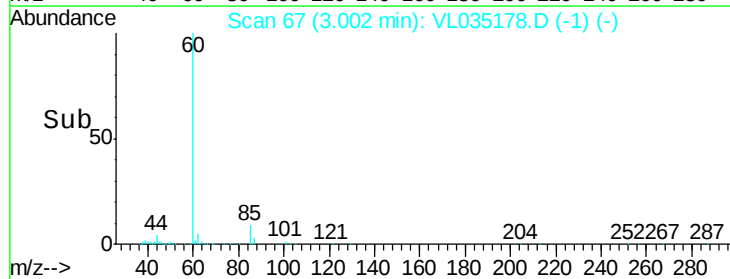
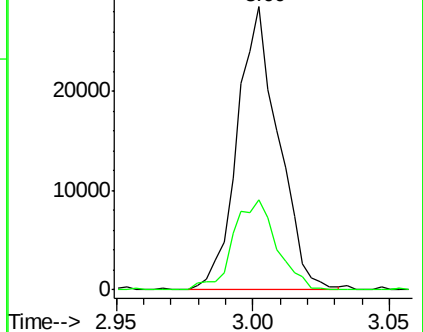
85 100

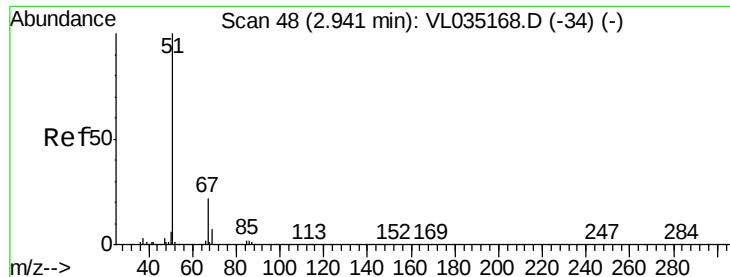
87 31.7 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 5.615 ppbv

RT: 2.92 min Scan# 40

Delta R.T. -0.03 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

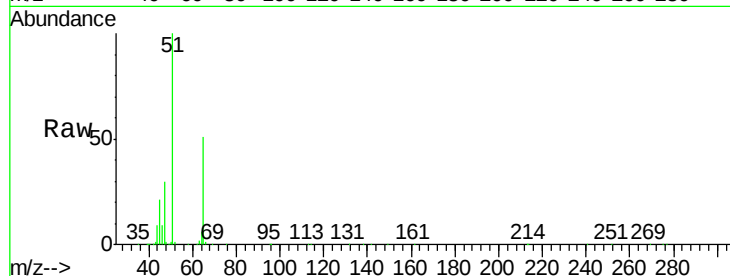
EXHAUST-02

Tgt Ion: 51 Resp: 626403

Ion Ratio Lower Upper

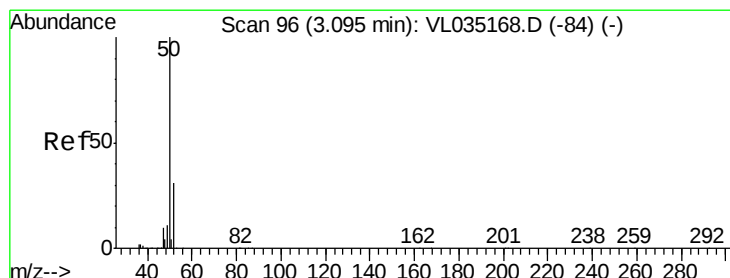
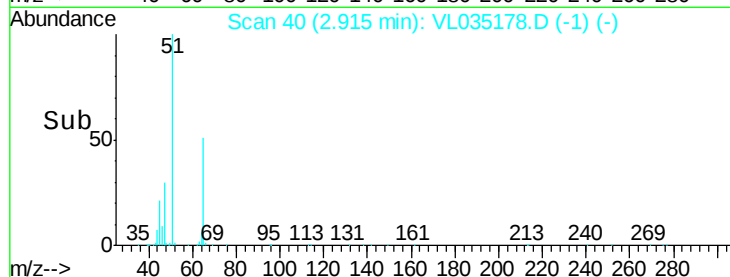
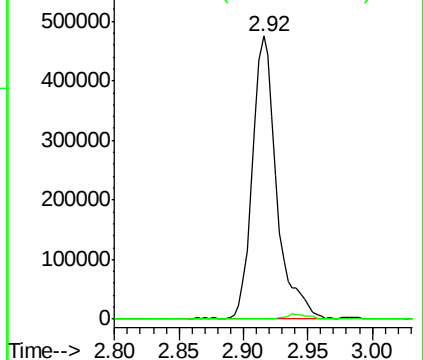
51 100

67 1.7 16.6 24.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.303 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL035178.D

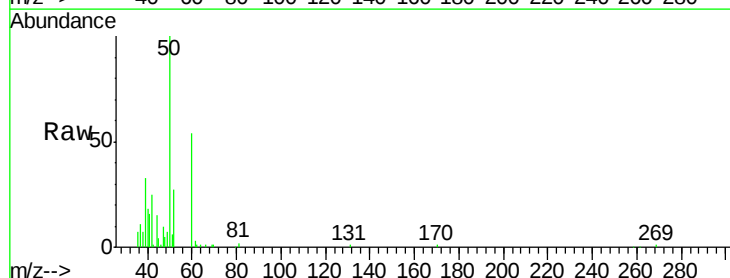
Acq: 8 Jul 2020 10:43

Tgt Ion: 50 Resp: 19023

Ion Ratio Lower Upper

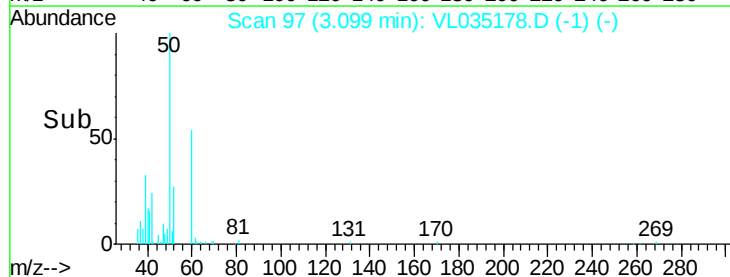
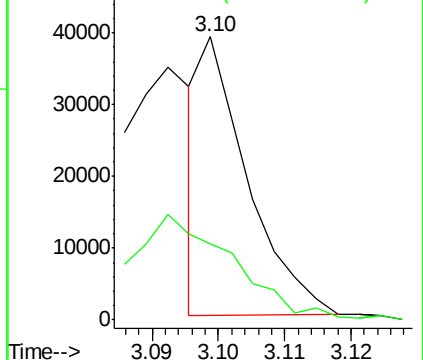
50 100

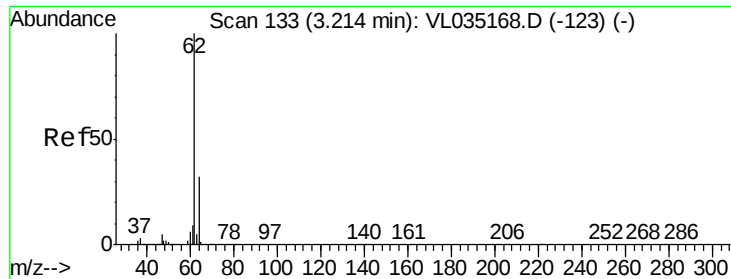
52 26.1 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 22.339 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.24 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

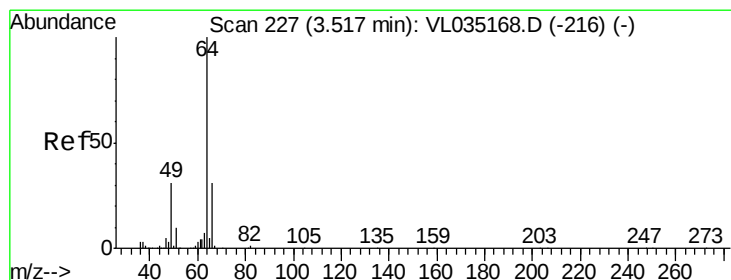
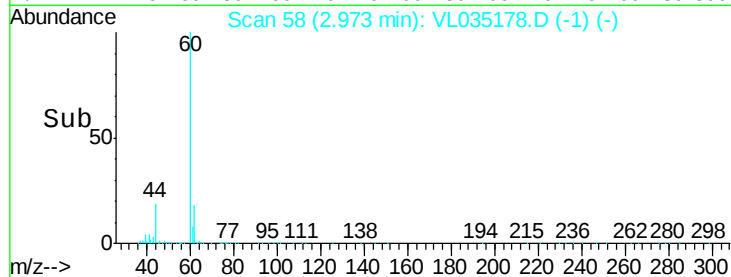
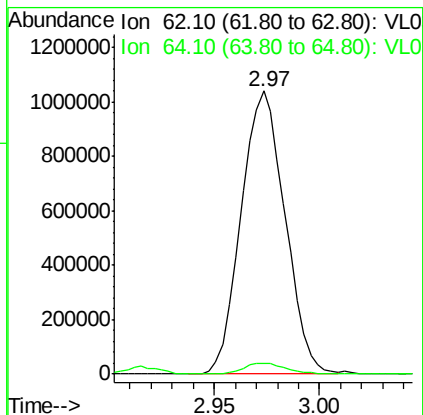
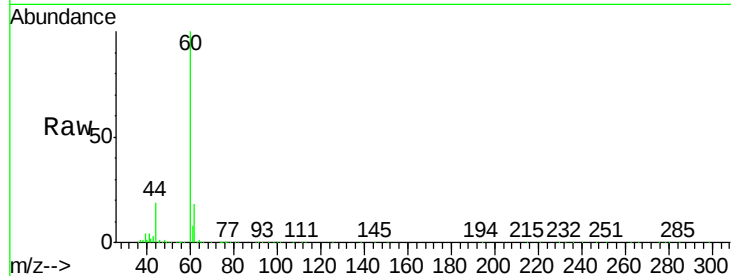
EXHAUST-02

Tgt Ion: 62 Resp: 1500898

Ion Ratio Lower Upper

62 100

64 3.8 25.9 38.9#



#7

Chloroethane

Concen: 0.031 ppbv

RT: 3.52 min Scan# 228

Delta R.T. 0.00 min

Lab File: VL035178.D

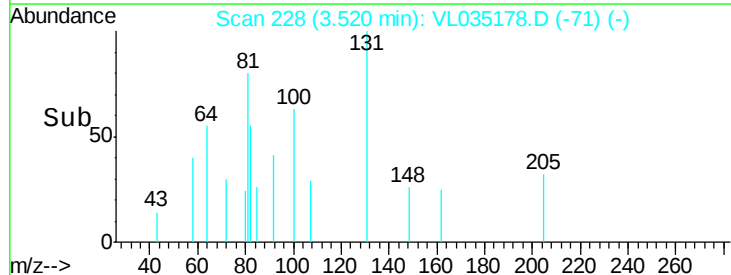
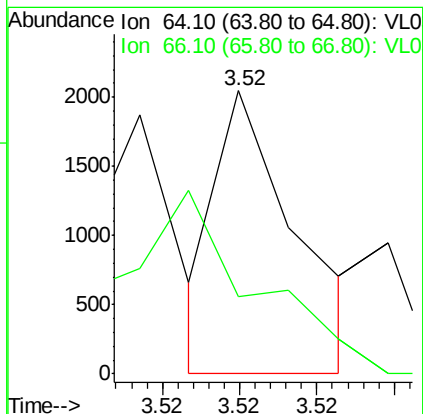
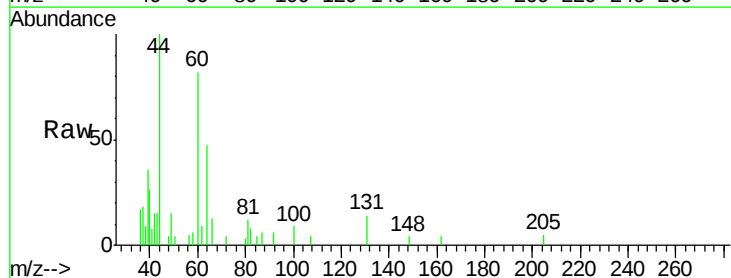
Acq: 8 Jul 2020 10:43

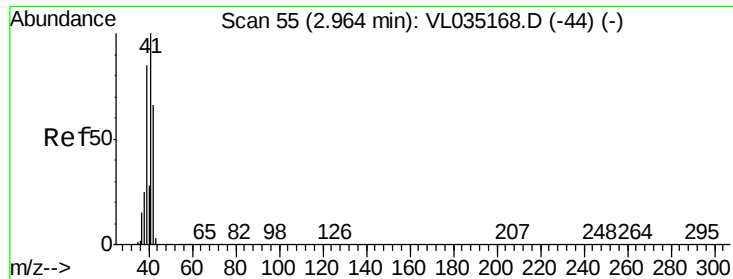
Tgt Ion: 64 Resp: 734

Ion Ratio Lower Upper

64 100

66 27.4 24.6 36.8





#9

Propene

Concen: 16.966 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

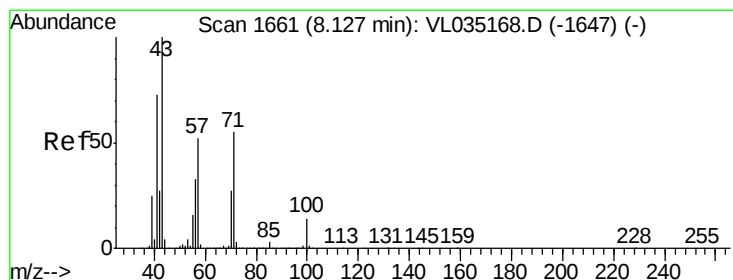
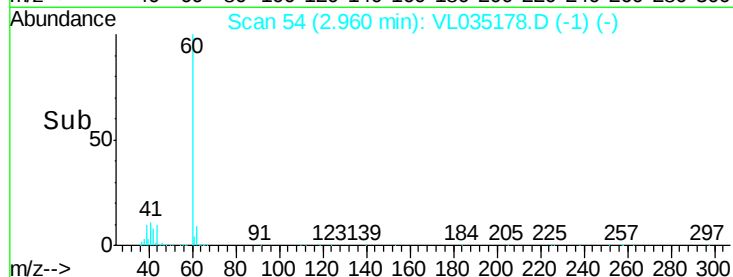
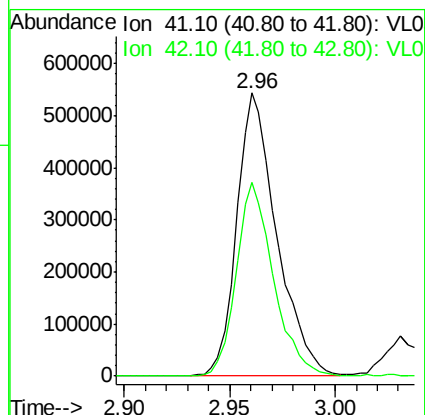
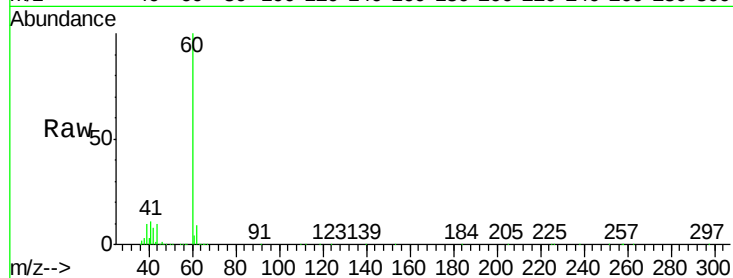
EXHAUST-02

Tgt Ion: 41 Resp: 715255

Ion Ratio Lower Upper

41 100

42 63.7 54.6 81.8



#10

Heptane

Concen: 0.048 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL035178.D

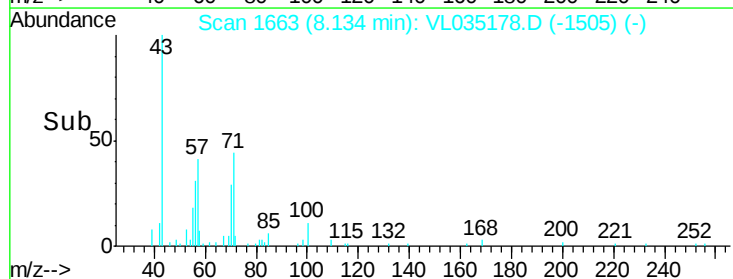
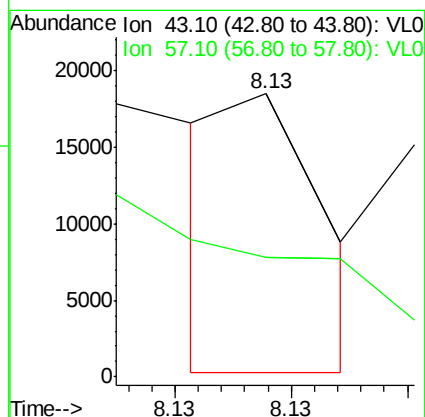
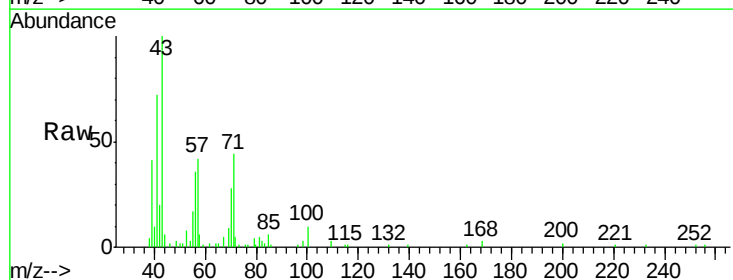
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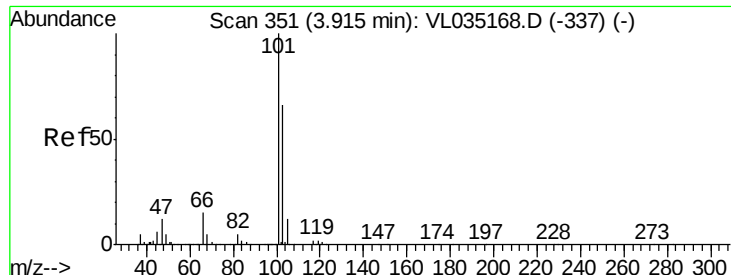
Tgt Ion: 43 Resp: 5150

Ion Ratio Lower Upper

43 100

57 0.0 41.8 62.6#

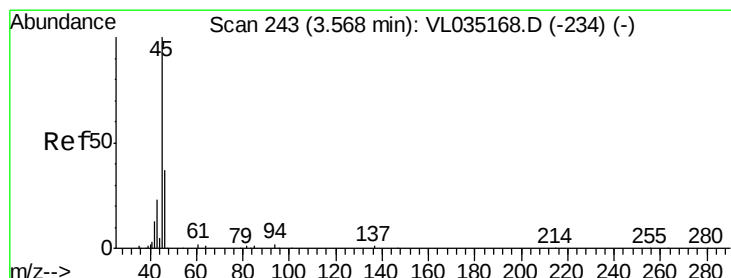
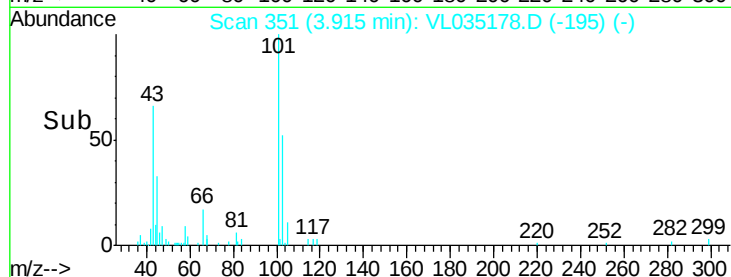
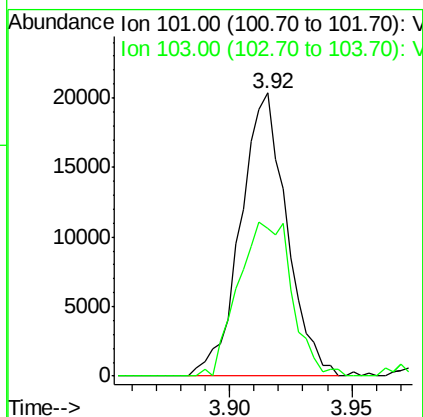
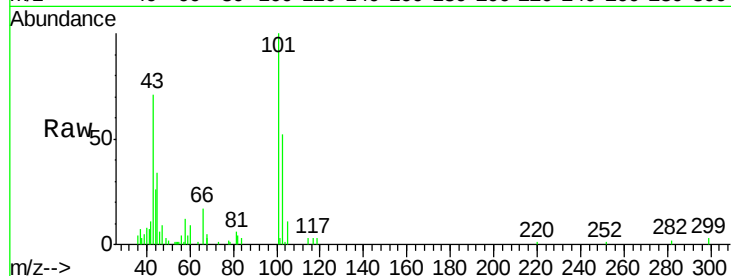




#11
 Trichlorofluoromethane
 Concen: 0.167 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

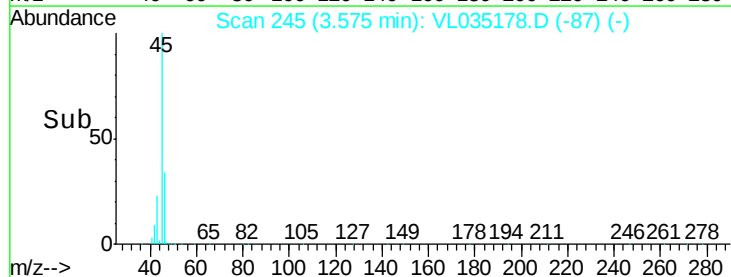
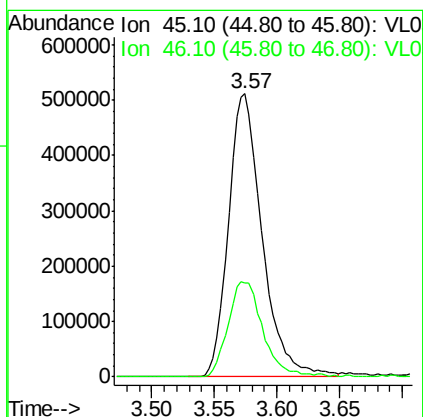
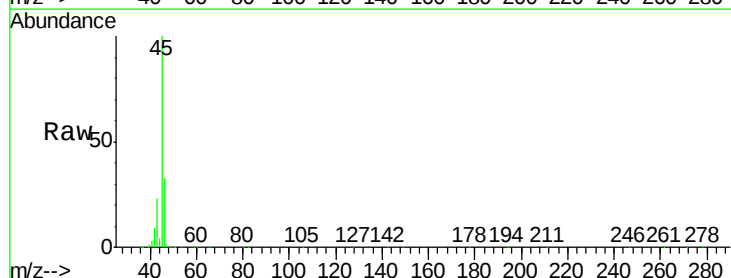
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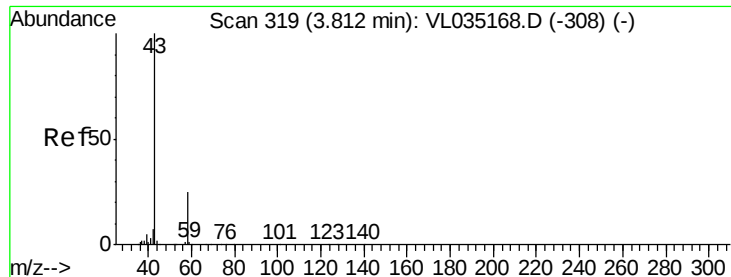
Tgt Ion: 101 Resp: 26625
 Ion Ratio Lower Upper
 101 100
 103 52.0 53.1 79.7#



#13
 Ethanol
 Concen: 71.326 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. 0.01 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

Tgt Ion: 45 Resp: 957375
 Ion Ratio Lower Upper
 45 100
 46 35.8 16.2 65.0





#15

Acetone

Concen: 56.229 ppbv

RT: 3.81 min Scan# 319

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

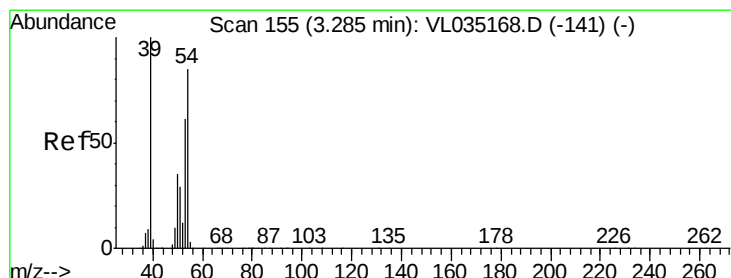
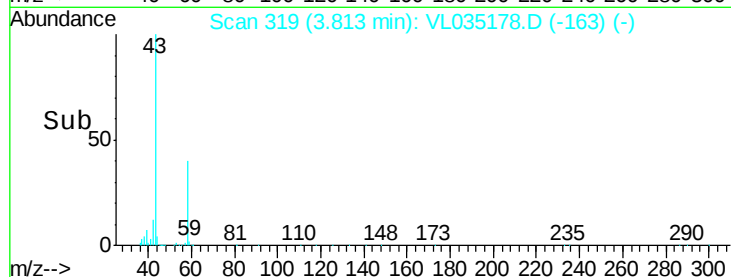
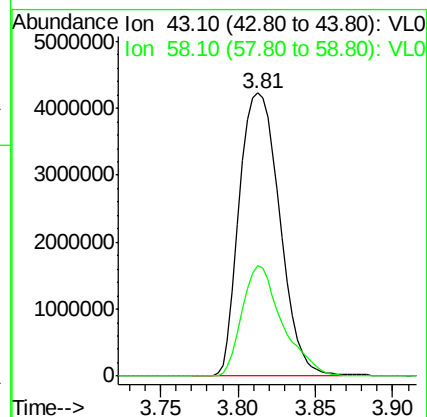
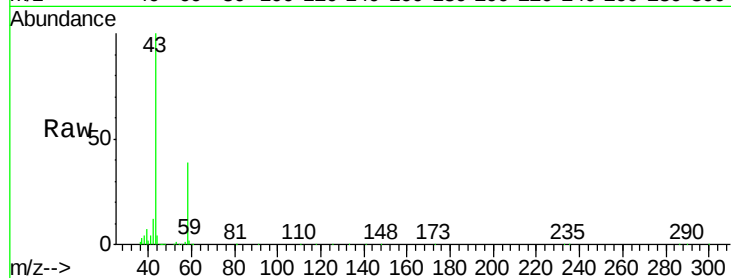
EXHAUST-02

Tgt Ion: 43 Resp: 7688065

Ion Ratio Lower Upper

43 100

58 39.0 21.3 31.9#



#16

1,3-Butadiene

Concen: 0.466 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.03 min

Lab File: VL035178.D

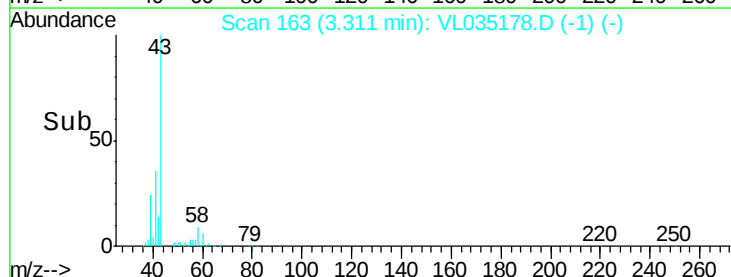
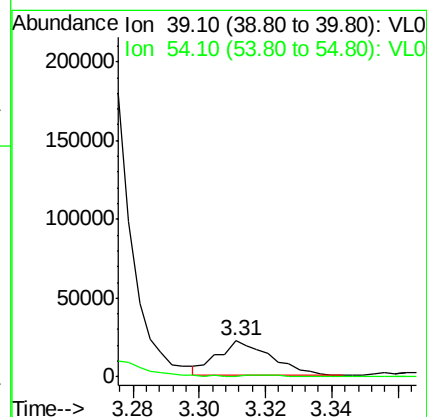
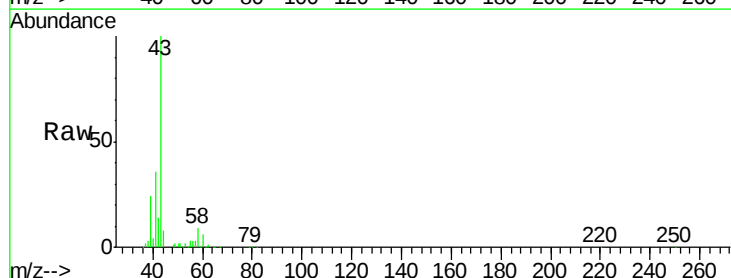
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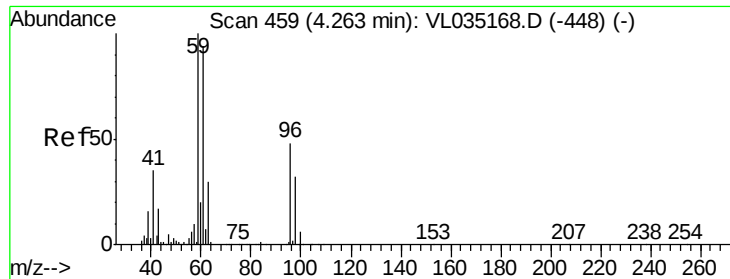
Tgt Ion: 39 Resp: 24451

Ion Ratio Lower Upper

39 100

54 0.0 67.2 100.8#





#17

tert-Butyl alcohol
Concen: 13.510 ppbv
RT: 4.27 min Scan# 461
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

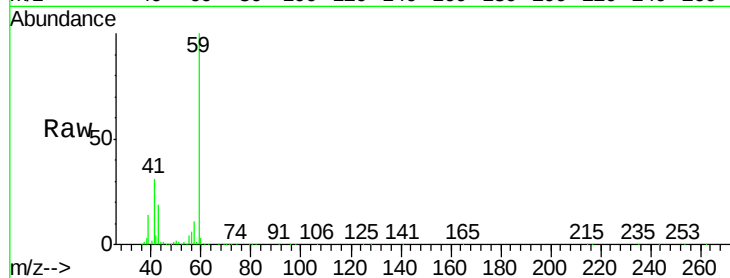
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tgt Ion: 59 Resp: 1634474

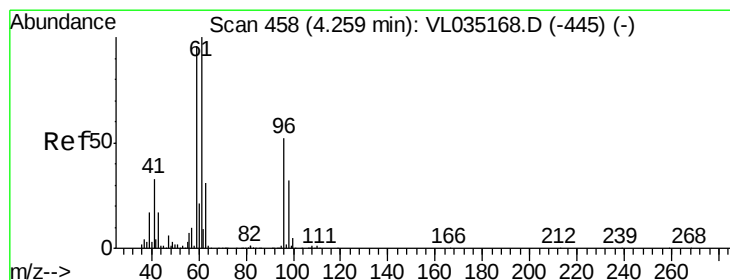
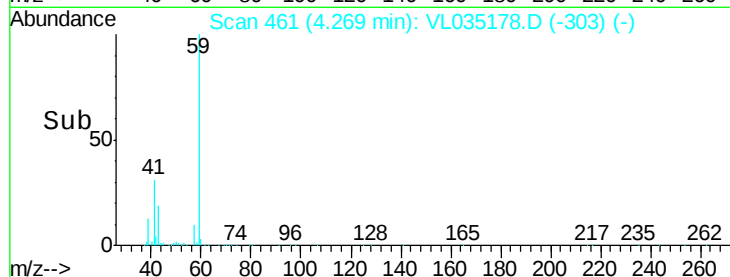
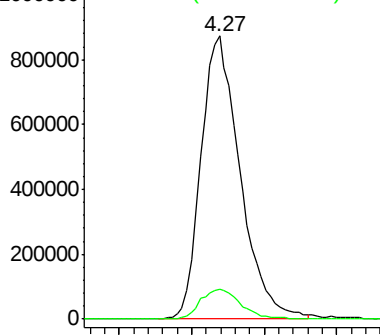
Ion Ratio Lower Upper

59 100

57 11.1 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0
Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene
Concen: 0.058 ppbv
RT: 4.26 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

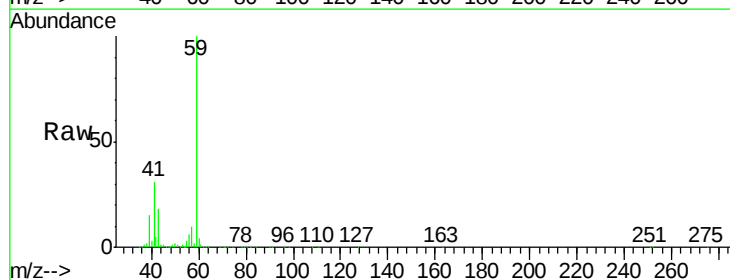
Tgt Ion: 96 Resp: 2891

Ion Ratio Lower Upper

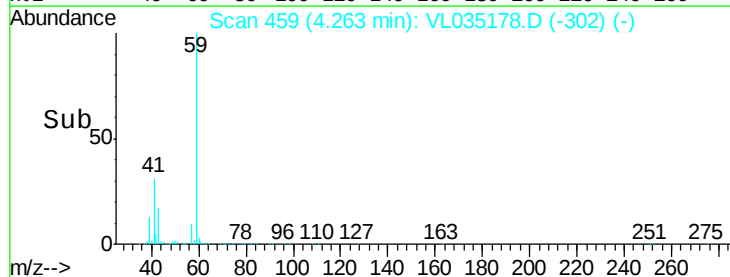
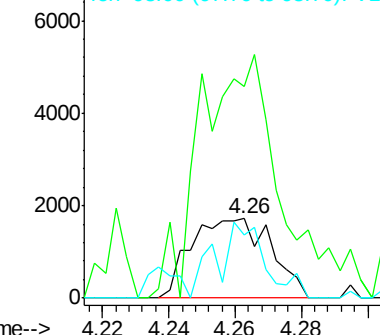
96 100

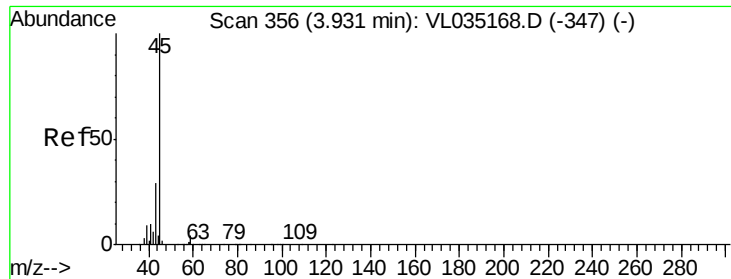
61 210.1 152.9 229.3

98 80.1 48.7 73.1#



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 6.334 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.01 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

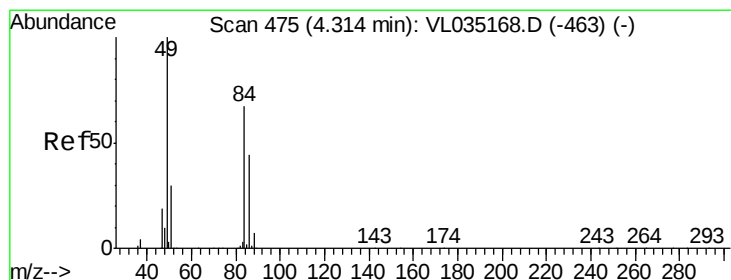
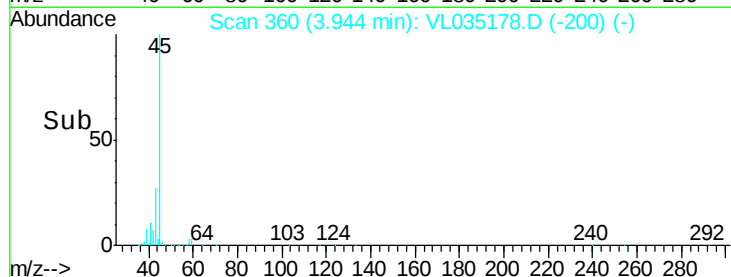
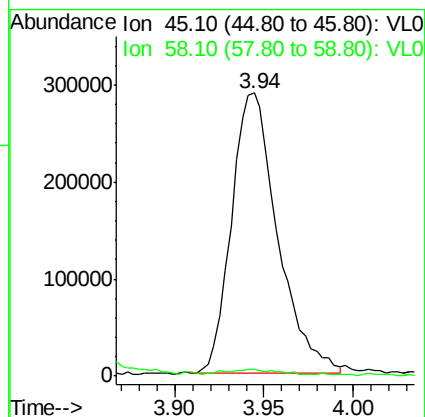
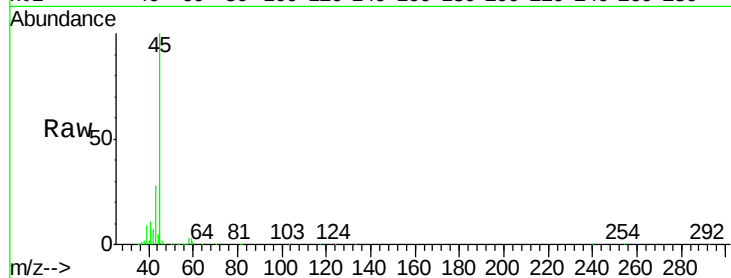
EXHAUST-02

Tgt Ion: 45 Resp: 522442

Ion Ratio Lower Upper

45 100

58 0.0 2.1 3.1#



#20

Methylene Chloride

Concen: 98.534 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Tgt Ion: 84 Resp: 5862009

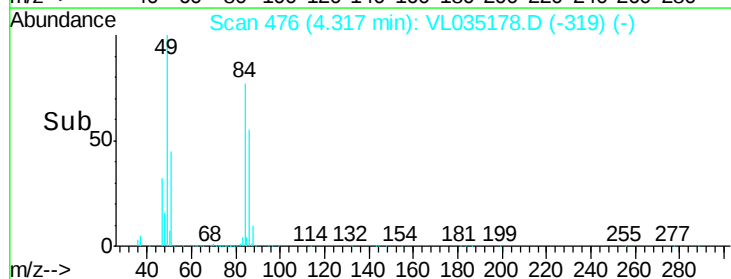
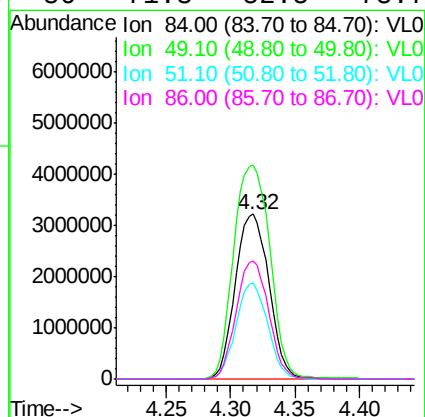
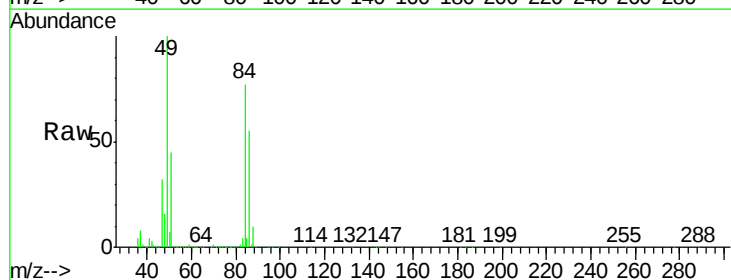
Ion Ratio Lower Upper

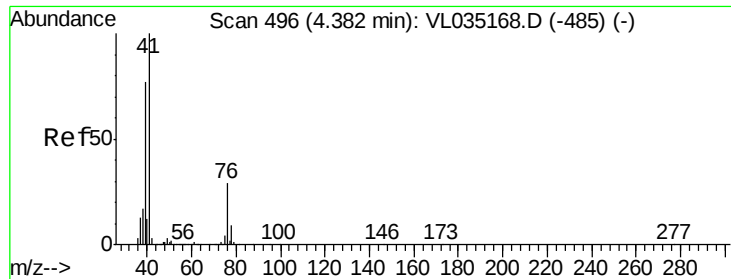
84 100

49 129.5 119.4 179.0

51 57.8 36.6 55.0#

86 71.3 52.5 78.7





#21

Allyl Chloride

Concen: 4.146 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.07 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

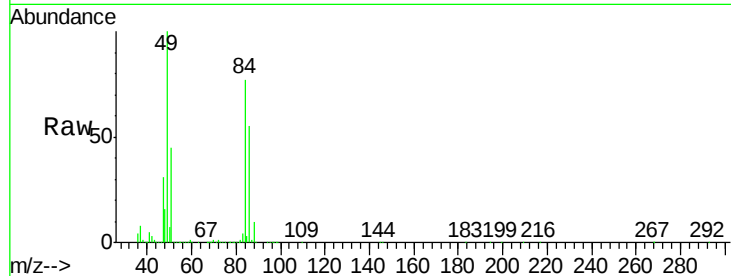
Tgt Ion: 41 Resp: 329914

Ion Ratio Lower Upper

41 100

76 0.0 23.5 35.3#

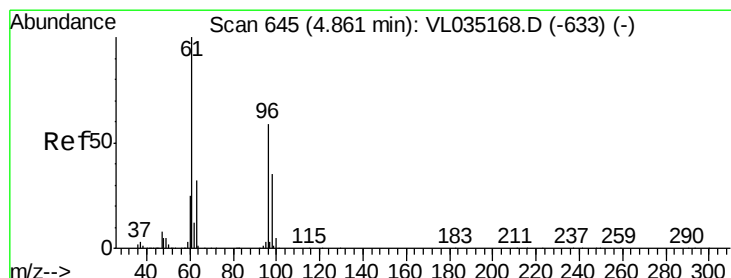
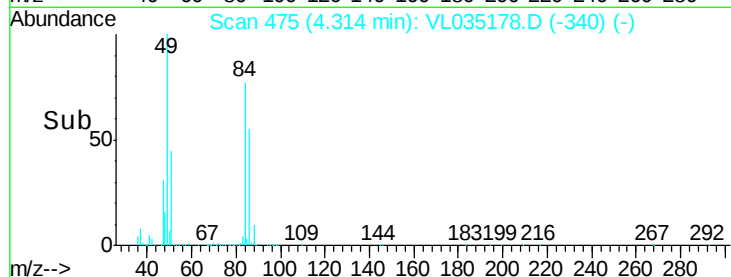
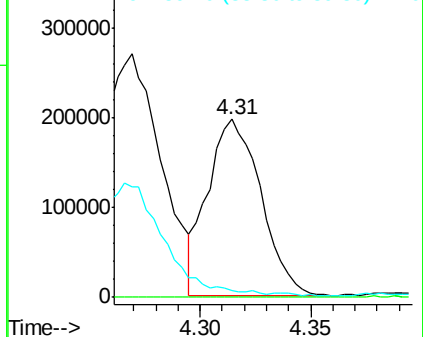
39 2.4 63.4 95.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.039 ppbv

RT: 4.86 min Scan# 646

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

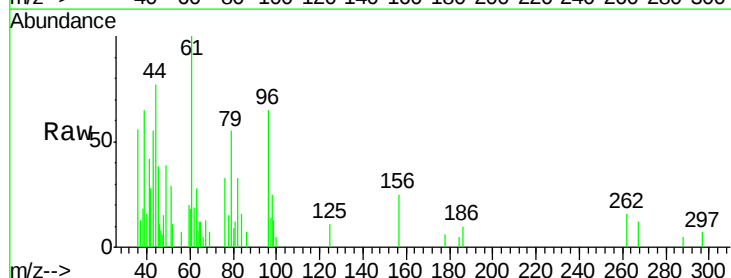
Tgt Ion: 96 Resp: 1934

Ion Ratio Lower Upper

96 100

61 153.9 136.5 204.7

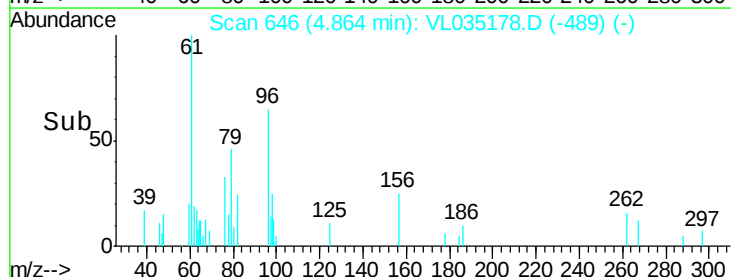
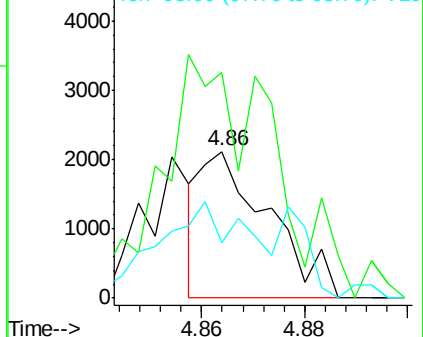
98 58.7 47.5 71.3

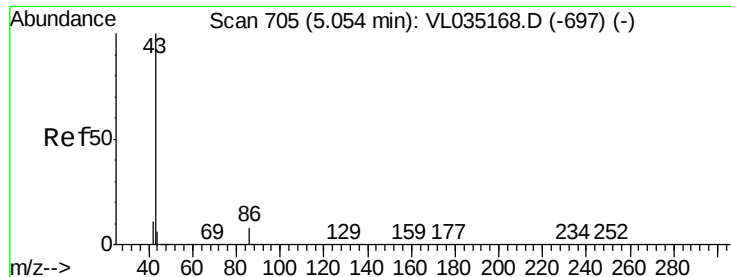


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 2.829 ppbv

RT: 5.04 min Scan# 702

Delta R.T. -0.01 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tgt Ion: 43 Resp: 418658

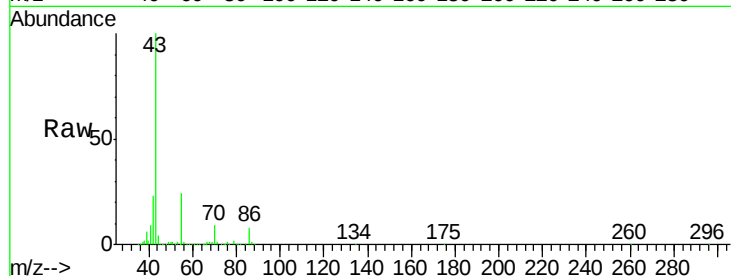
Ion Ratio Lower Upper

43 100

86 8.5 6.2 9.2

42 23.1 9.1 13.7#

44 3.2 4.6 6.8#

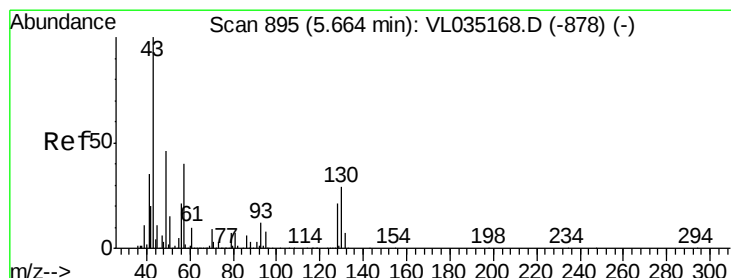
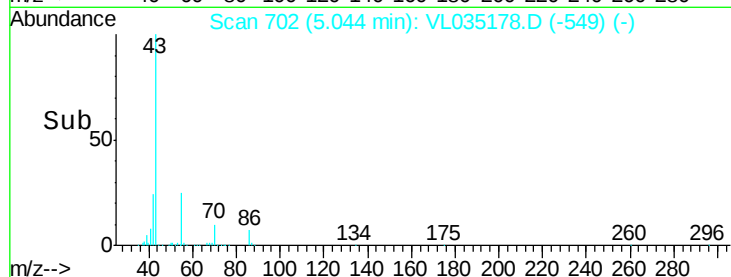
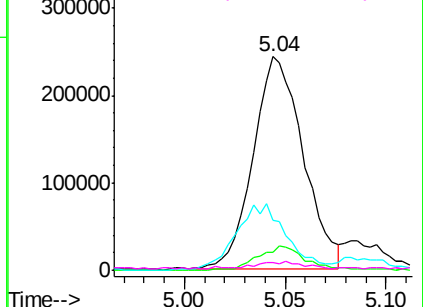


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 13.497 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Tgt Ion: 43 Resp: 2863876

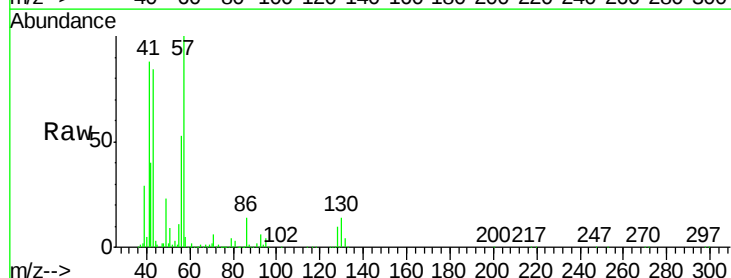
Ion Ratio Lower Upper

43 100

45 2.5 8.5 12.7#

61 2.1 8.1 12.1#

70 2.7 6.3 9.5#

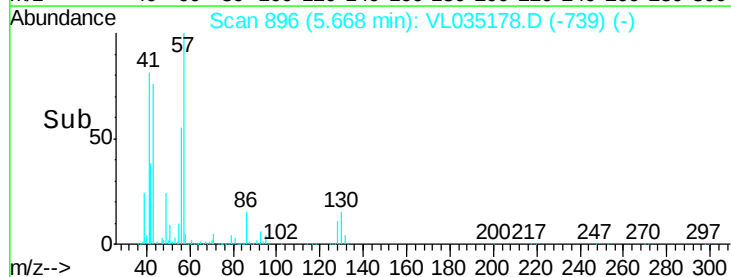
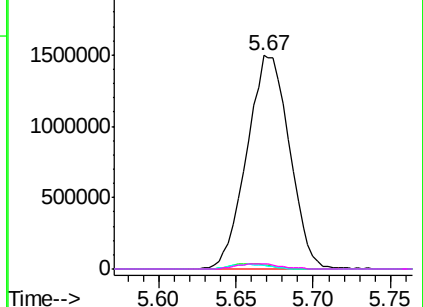


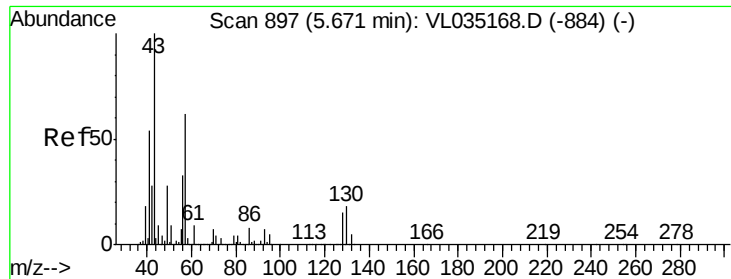
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



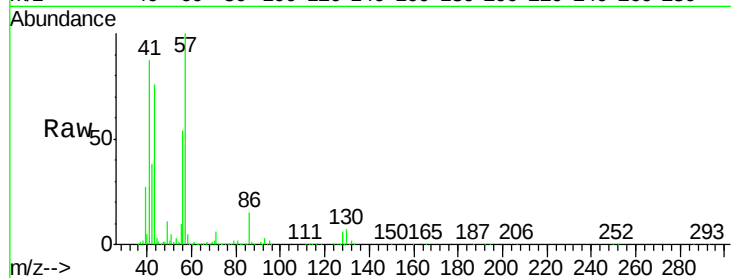


#26
Hexane
Concen: 37.496 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

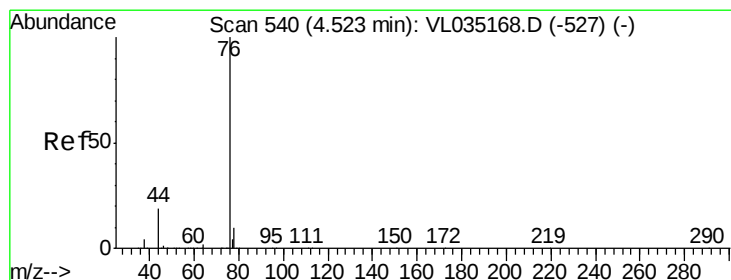
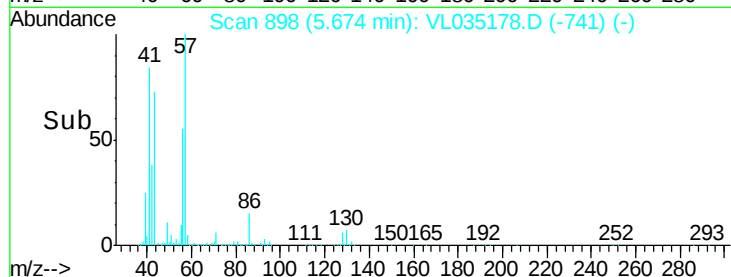
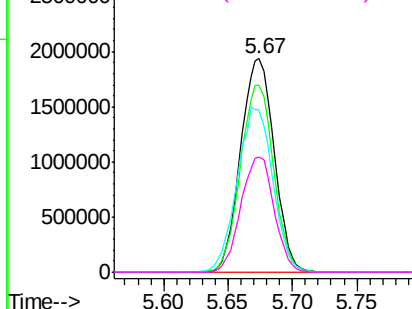
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tgt Ion: 57 Resp: 3507877

Ion	Ratio	Lower	Upper
57	100		
41	87.2	72.9	109.3
43	82.1	179.5	269.3#
56	53.7	42.9	64.3



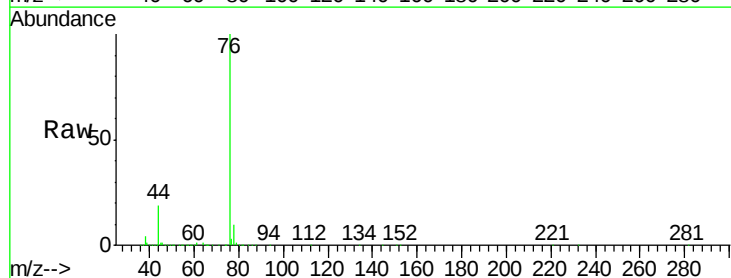
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



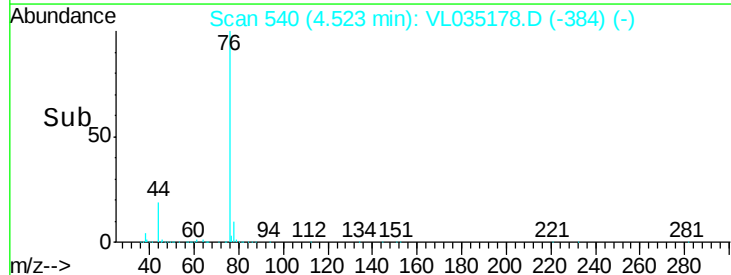
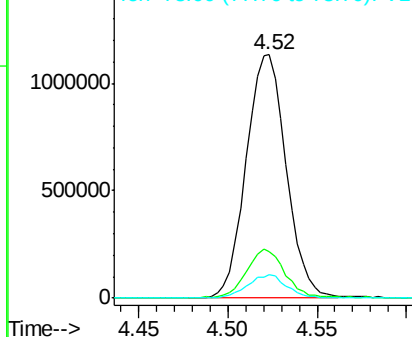
#27
Carbon Disulfide
Concen: 13.598 ppbv
RT: 4.52 min Scan# 540
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

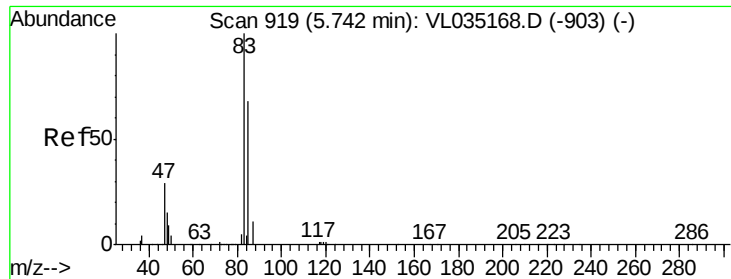
Tgt Ion: 76 Resp: 1776388

Ion	Ratio	Lower	Upper
76	100		
44	19.3	14.9	22.3
78	9.5	7.5	11.3



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

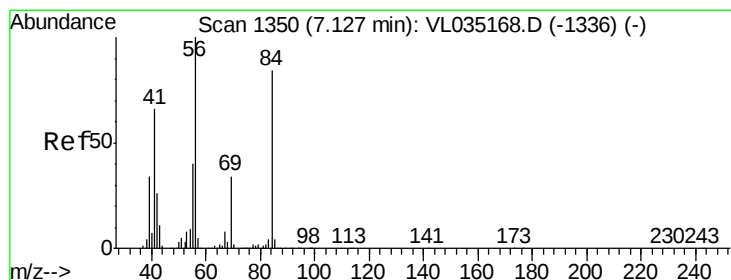
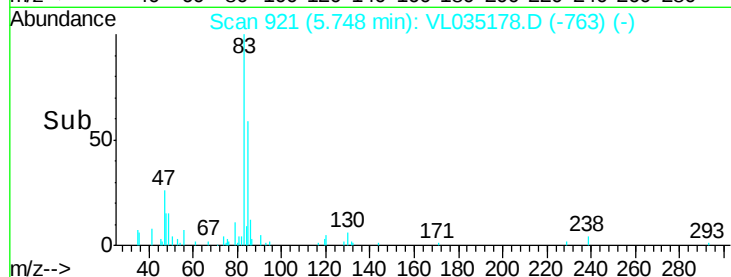
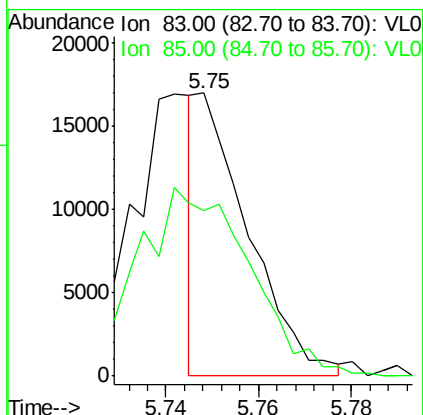
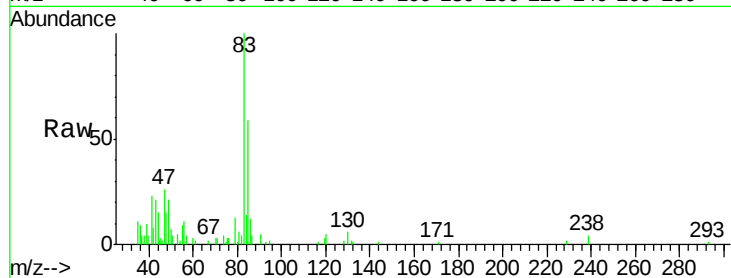




#29
Chloroform
Concen: 0.083 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

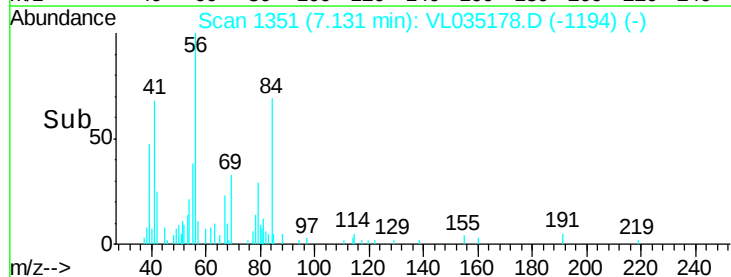
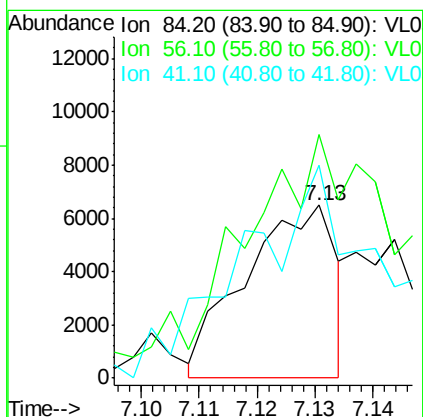
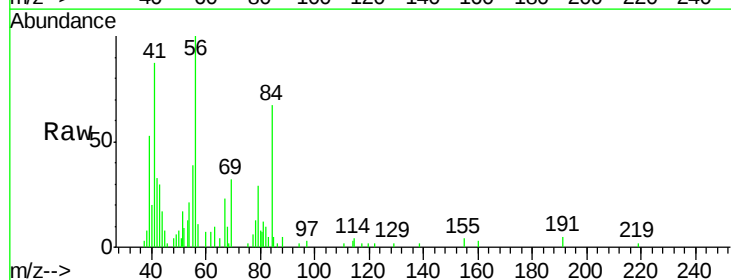
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

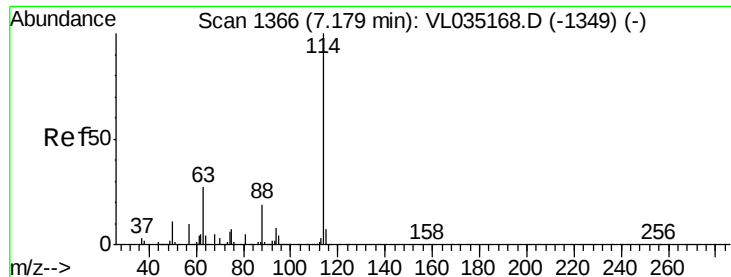
Tgt Ion: 83 Resp: 12948
Ion Ratio Lower Upper
83 100
85 57.7 54.3 81.5



#30
Cyclohexane
Concen: 0.102 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 84 Resp: 7038
Ion Ratio Lower Upper
84 100
56 229.2 105.6 158.4#
41 180.0 64.9 97.3#

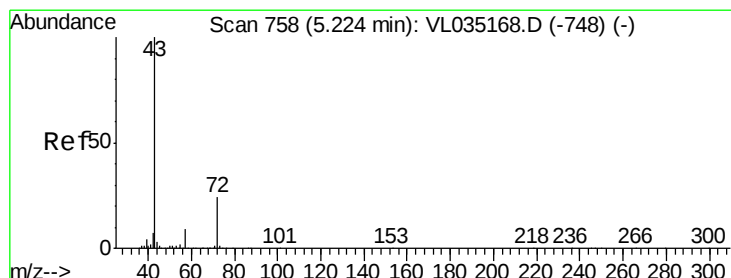
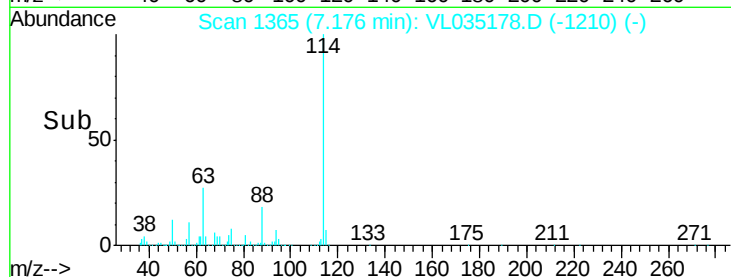
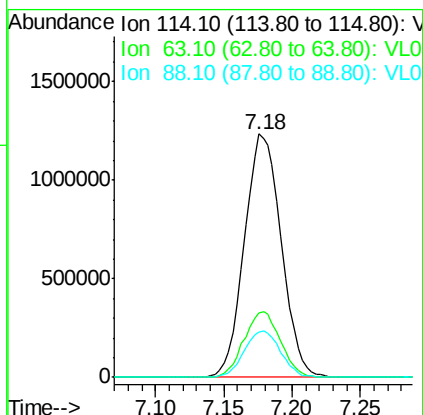
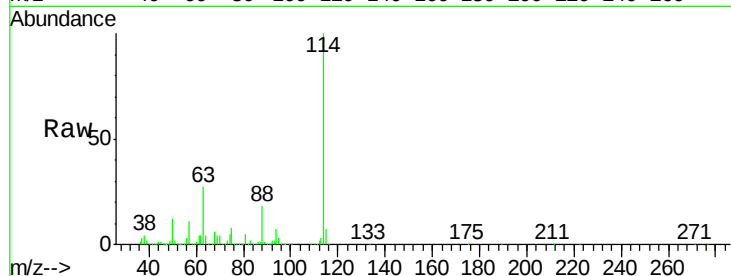




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

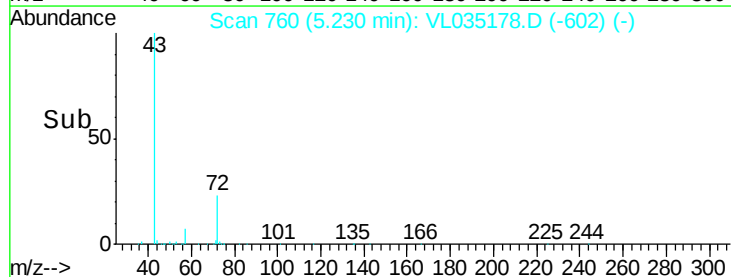
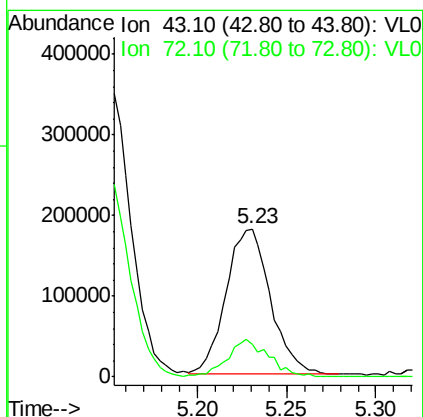
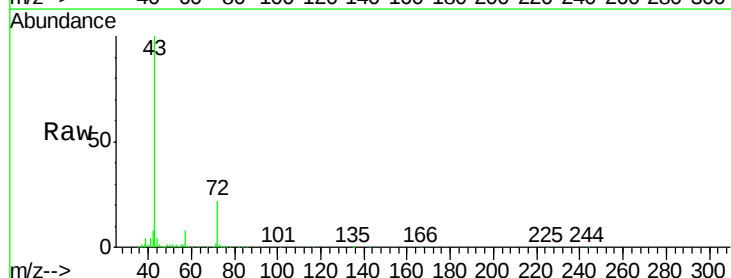
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

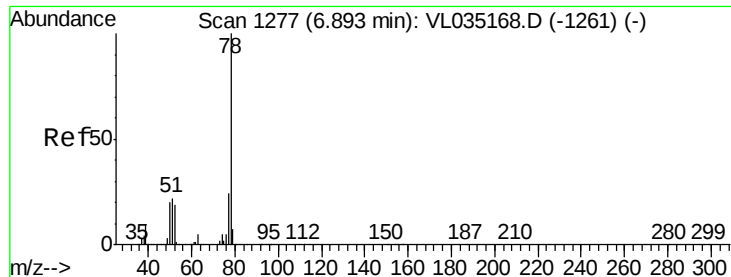
Tgt Ion:114 Resp: 2312185
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.0 33.0
 88 18.9 15.4 23.0



#34
 2-Butanone
 Concen: 2.543 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.01 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

Tgt Ion: 43 Resp: 313863
 Ion Ratio Lower Upper
 43 100
 72 23.9 18.6 28.0





#36

Benzene

Concen: 23.489 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

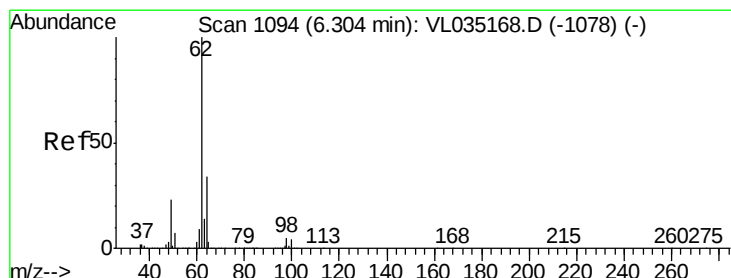
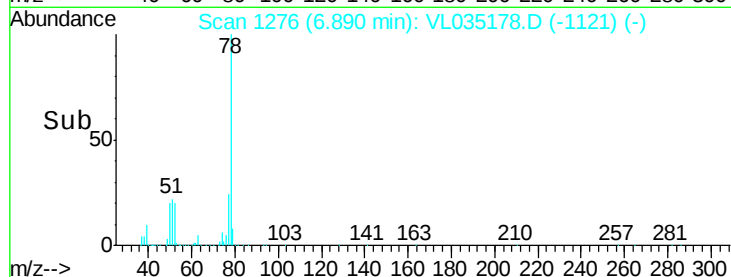
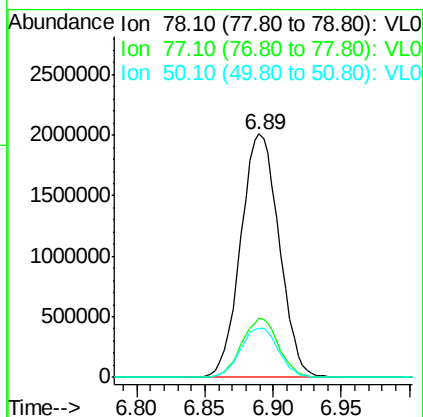
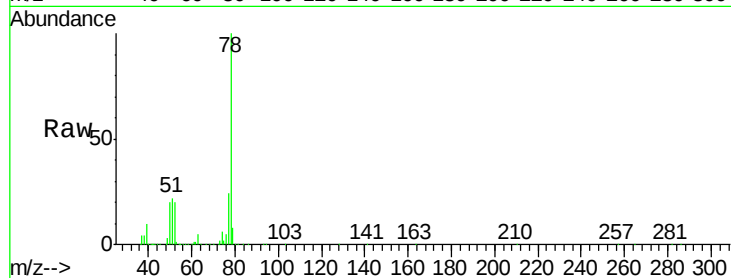
Tgt Ion: 78 Resp: 3930757

Ion Ratio Lower Upper

78 100

77 24.3 19.3 28.9

50 19.9 16.0 24.0



#37

1,2-Dichloroethane

Concen: 0.154 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. 0.00 min

Lab File: VL035178.D

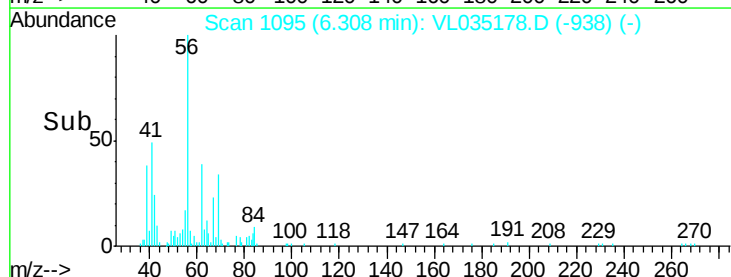
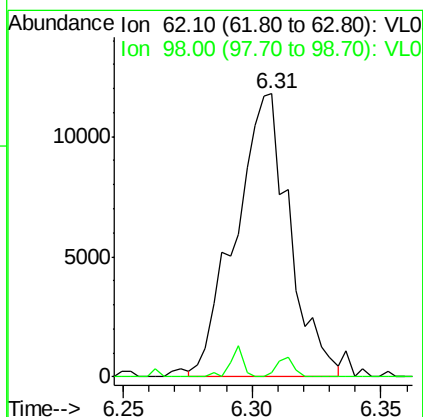
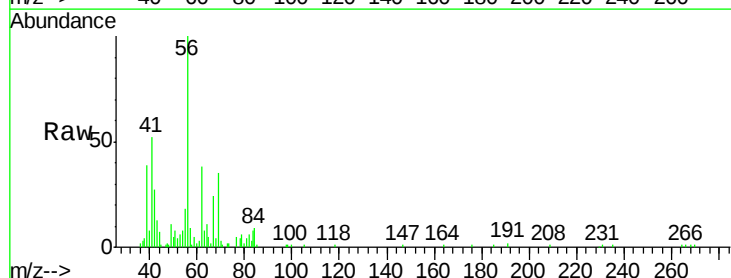
Acq: 8 Jul 2020 10:43

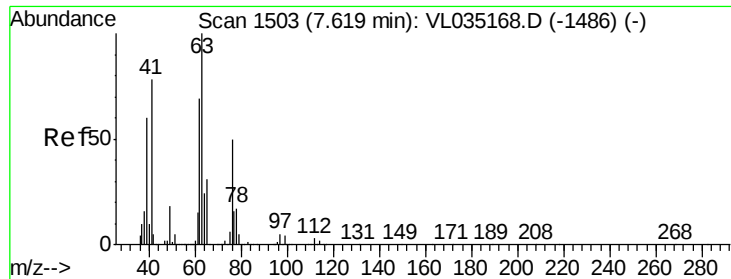
Tgt Ion: 62 Resp: 17274

Ion Ratio Lower Upper

62 100

98 4.7 4.6 6.8

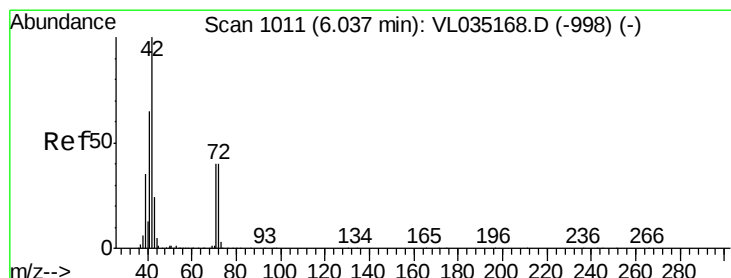
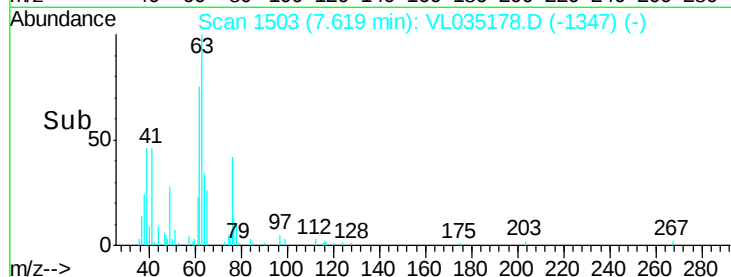
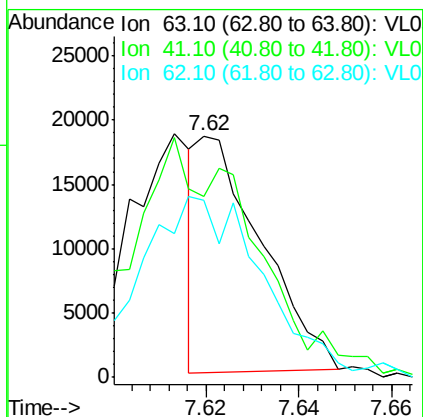
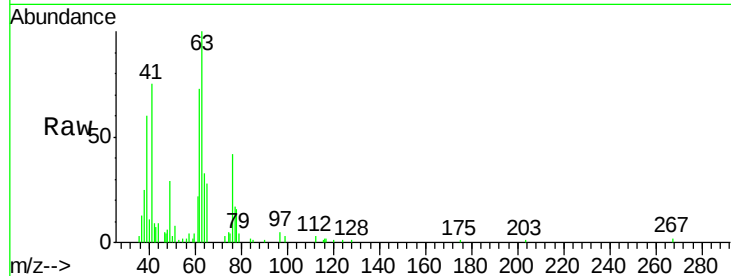




#39
 1,2-Dichloropropane
 Concen: 0.262 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. 0.00 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

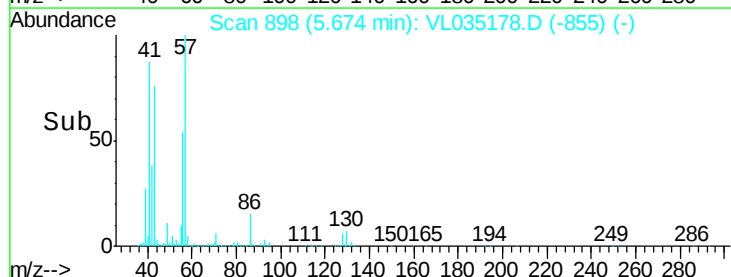
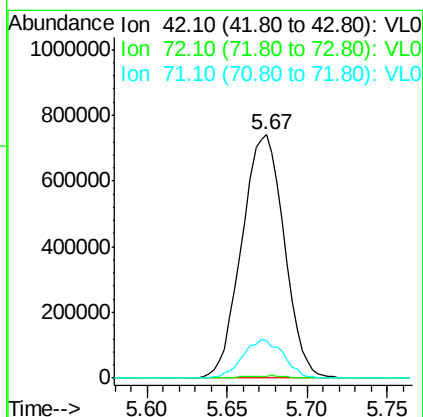
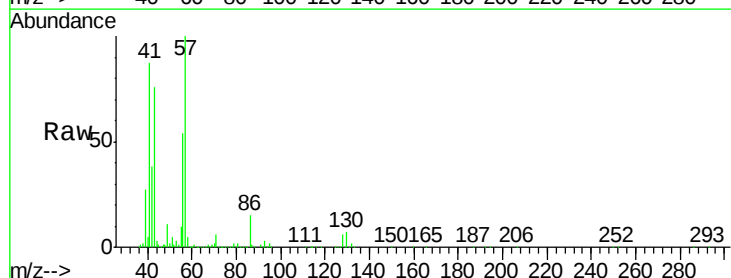
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

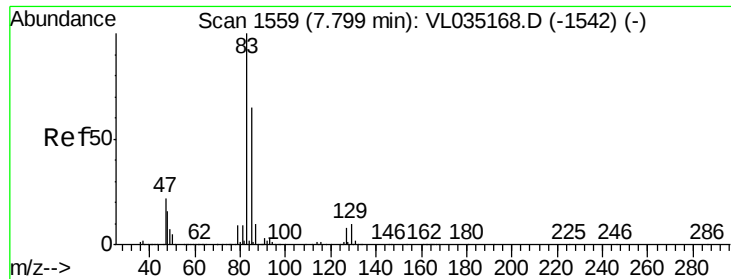
Tgt Ion: 63 Resp: 17438
 Ion Ratio Lower Upper
 63 100
 41 67.9 62.6 94.0
 62 69.6 55.0 82.6



#41
 Tetrahydrofuran
 Concen: 21.692 ppbv
 RT: 5.67 min Scan# 898
 Delta R.T. -0.36 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

Tgt Ion: 42 Resp: 1339529
 Ion Ratio Lower Upper
 42 100
 72 1.0 33.4 50.2#
 71 15.4 31.9 47.9#





#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

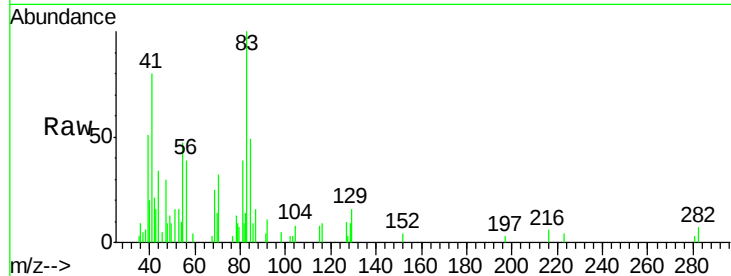
Tgt Ion: 83 Resp: 5117

Ion Ratio Lower Upper

83 100

85 43.0 52.2 78.4#

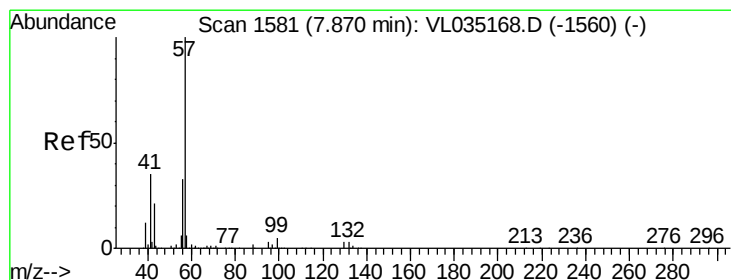
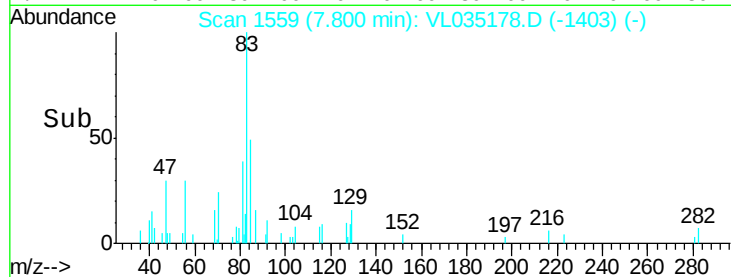
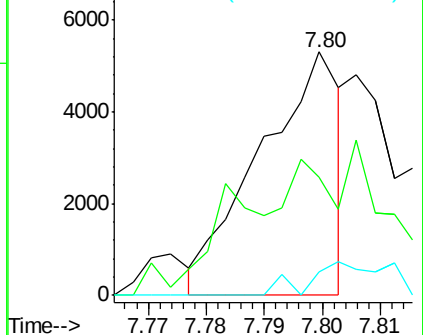
127 14.3 6.3 9.5#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.159 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

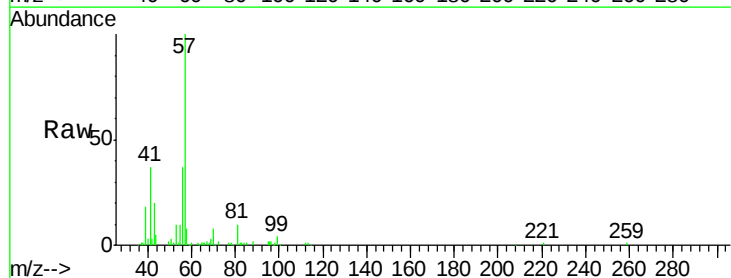
Tgt Ion: 57 Resp: 45810

Ion Ratio Lower Upper

57 100

41 85.6 27.0 40.6#

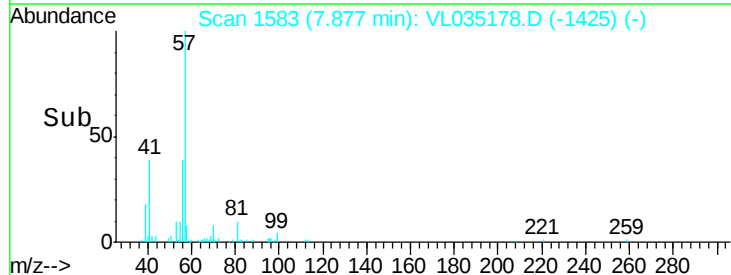
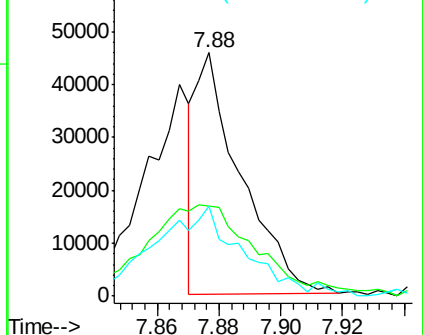
56 80.0 25.5 38.3#

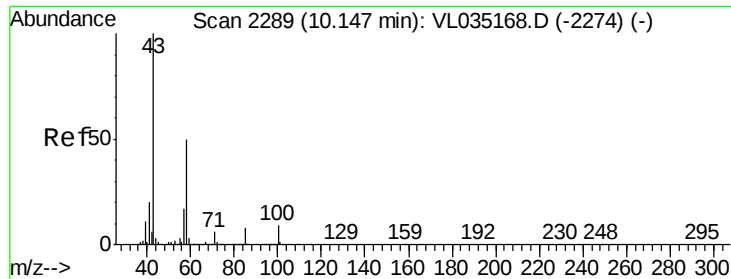


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

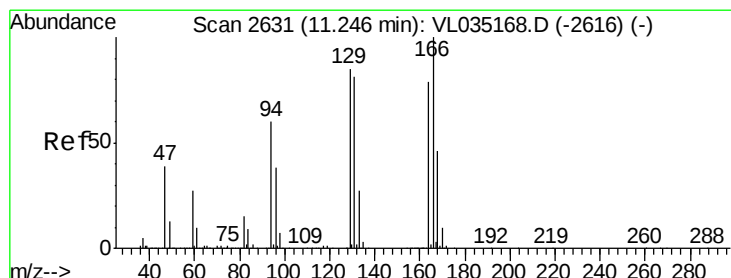
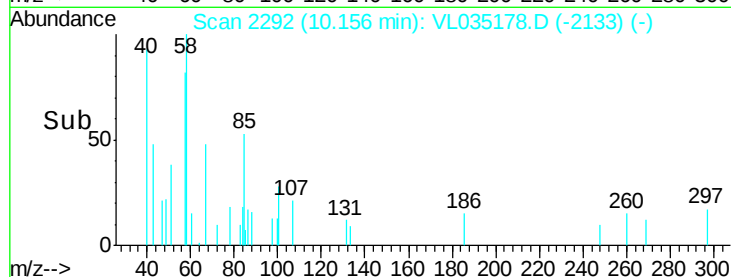
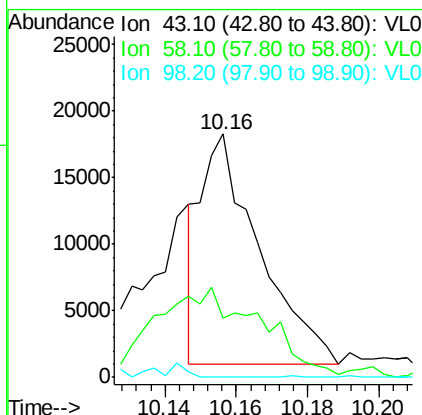
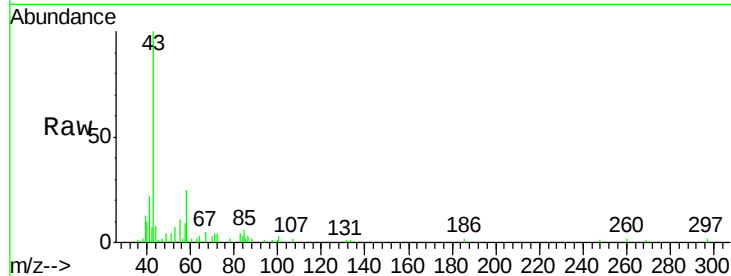




#51
2-Hexanone
Concen: 0.144 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

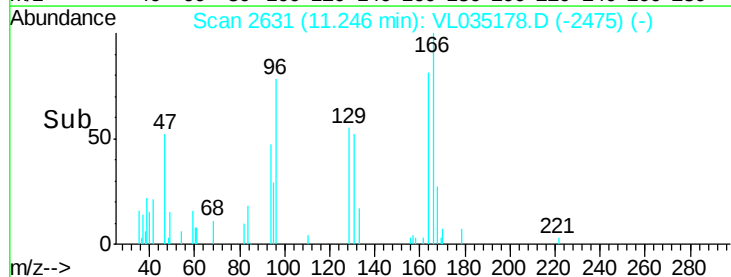
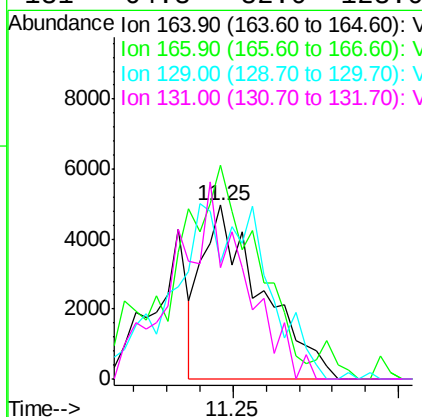
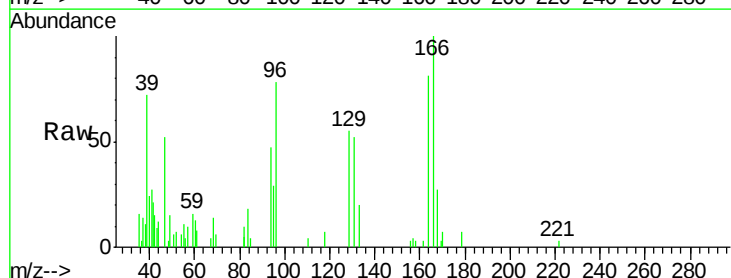
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

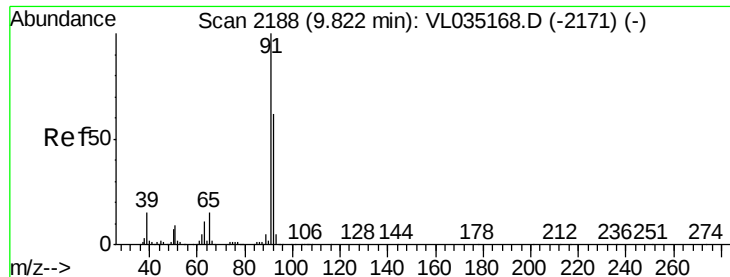
Tgt Ion: 43 Resp: 19427
Ion Ratio Lower Upper
43 100
58 78.6 39.4 59.0#
98 3.3 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.099 ppbv
RT: 11.25 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 164 Resp: 6160
Ion Ratio Lower Upper
164 100
166 114.6 100.7 151.1
129 67.3 85.8 128.6#
131 64.3 82.0 123.0#





#53

Toluene

Concen: 3.414 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

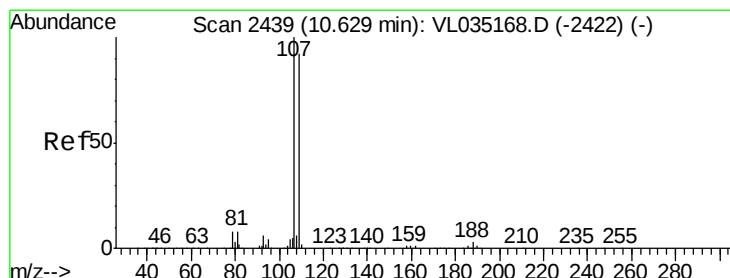
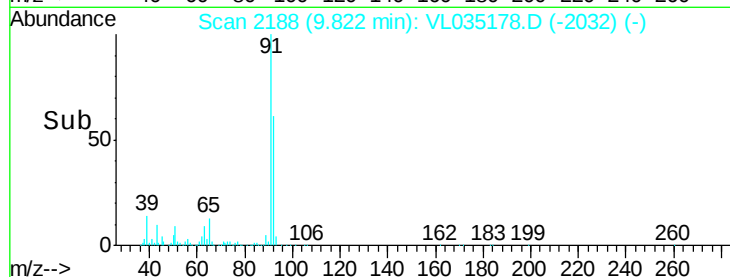
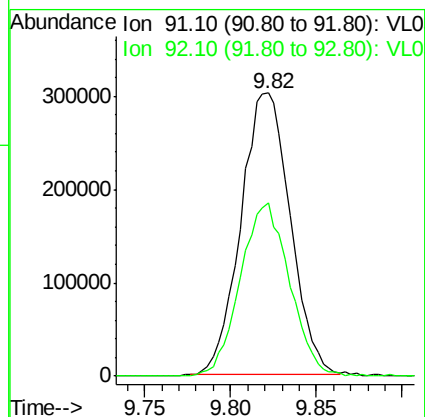
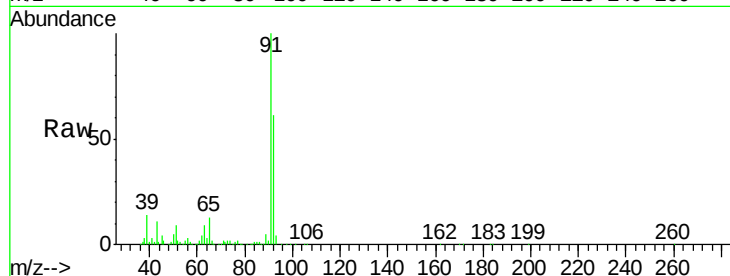
EXHAUST-02

Tgt Ion: 91 Resp: 602970

Ion Ratio Lower Upper

91 100

92 61.2 48.4 72.6



#54

1,2-Dibromoethane

Concen: 0.045 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VL035178.D

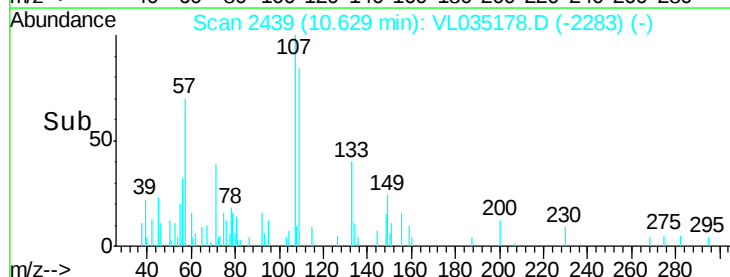
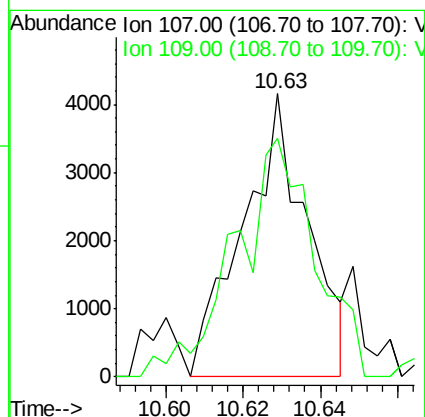
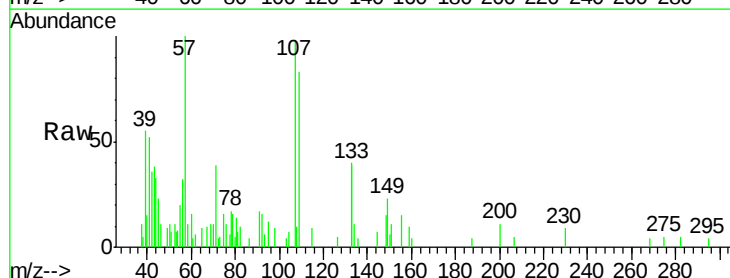
Acq: 8 Jul 2020 10:43

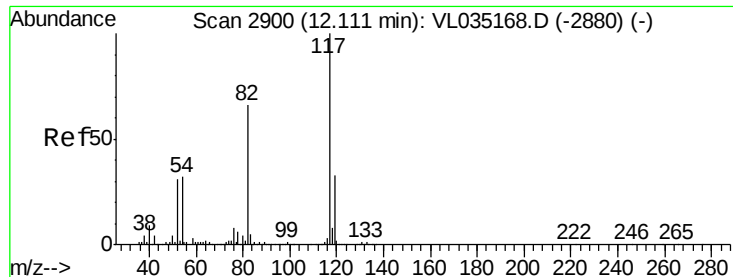
Tgt Ion: 107 Resp: 4817

Ion Ratio Lower Upper

107 100

109 75.8 74.0 111.0

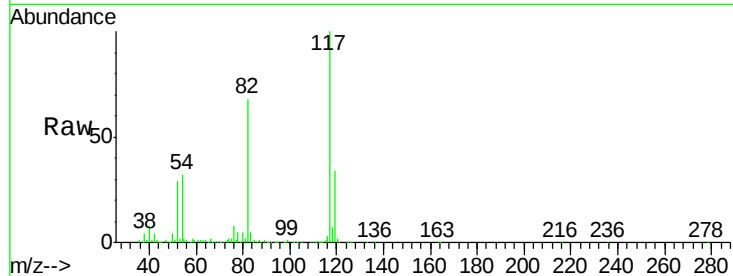




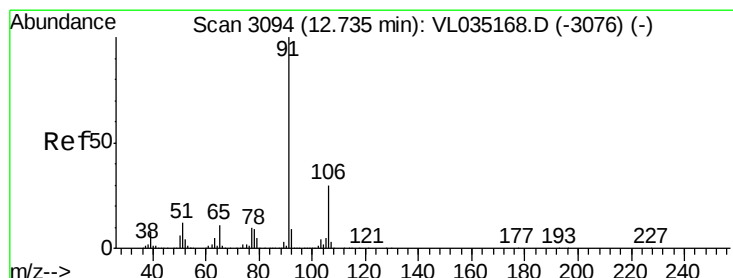
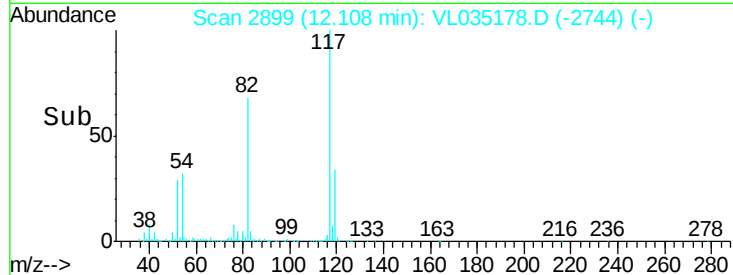
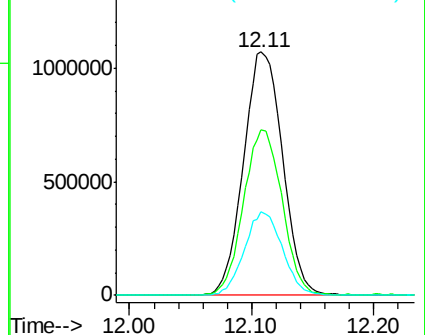
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tgt Ion:117 Resp: 2375238
Ion Ratio Lower Upper
117 100
82 67.0 52.3 78.5
119 33.3 24.9 37.3

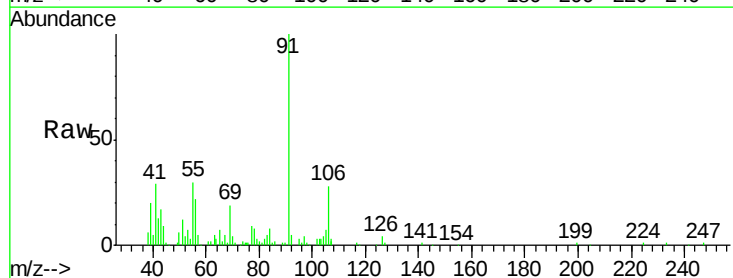


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

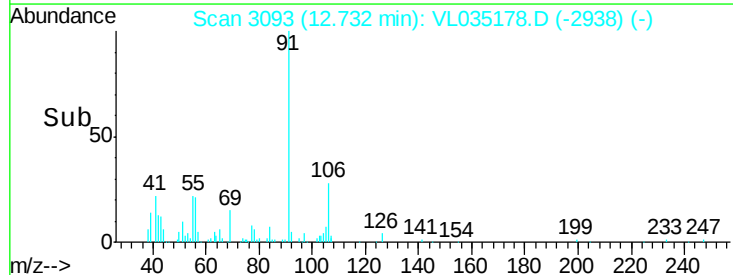
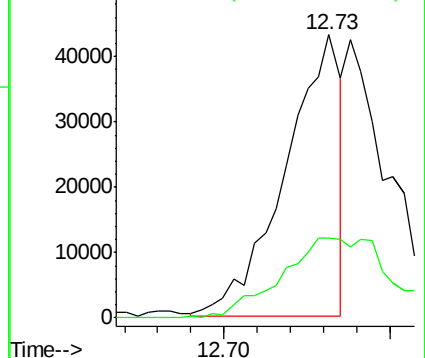


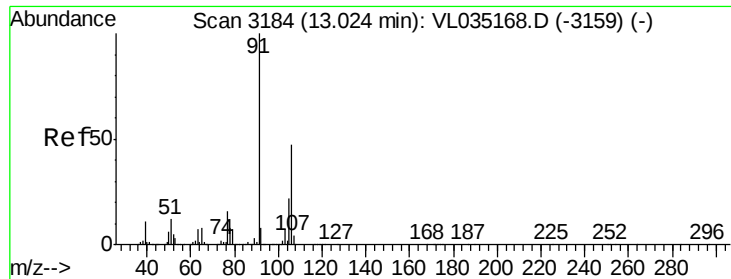
#58
Ethyl Benzene
Concen: 0.192 ppbv
RT: 12.73 min Scan# 3093
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 91 Resp: 50313
Ion Ratio Lower Upper
91 100
106 27.6 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

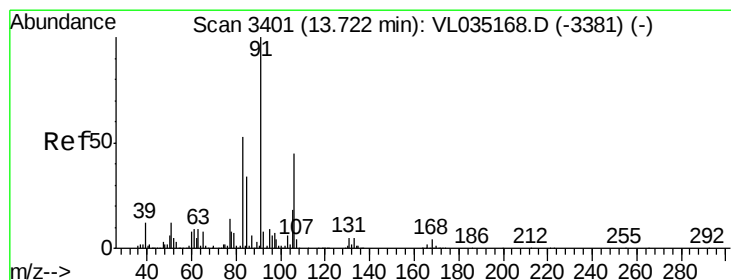
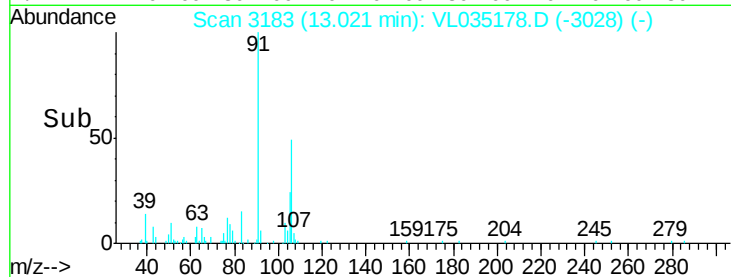
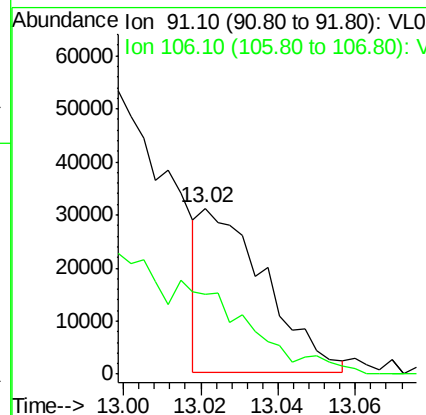
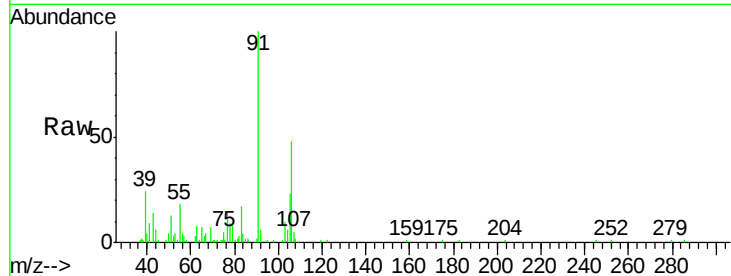




#59
m/p-Xylene
Concen: 0.153 ppbv
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

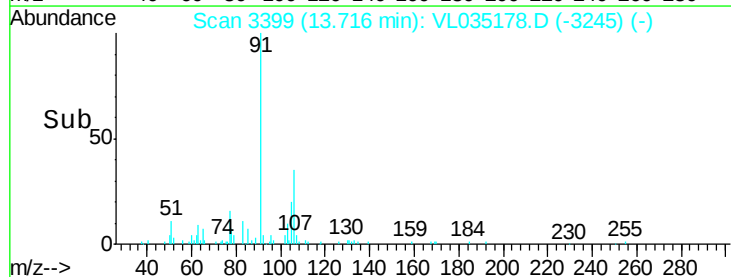
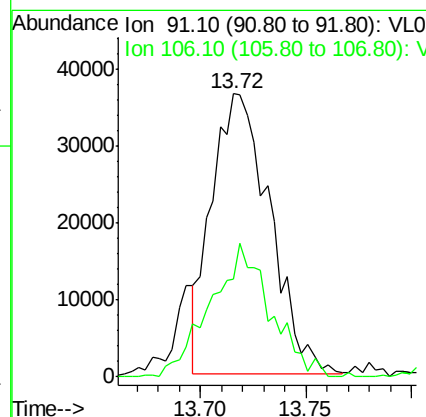
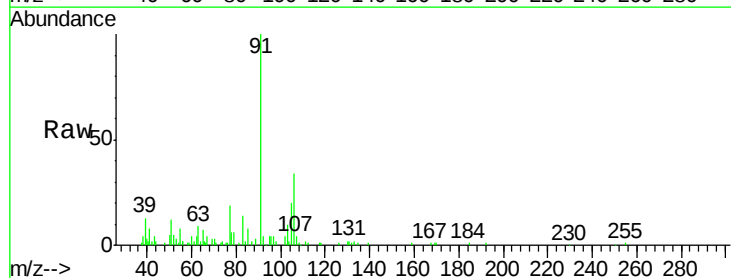
Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

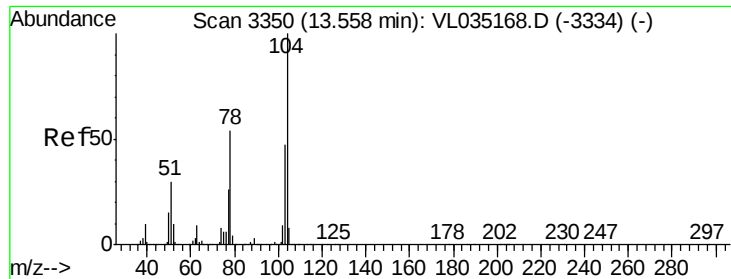
Tgt Ion: 91 Resp: 35854
Ion Ratio Lower Upper
91 100
106 0.0 36.2 54.2#



#60
o-Xylene
Concen: 0.298 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion: 91 Resp: 69565
Ion Ratio Lower Upper
91 100
106 49.1 22.1 66.3





#61

Styrene

Concen: 0.133 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

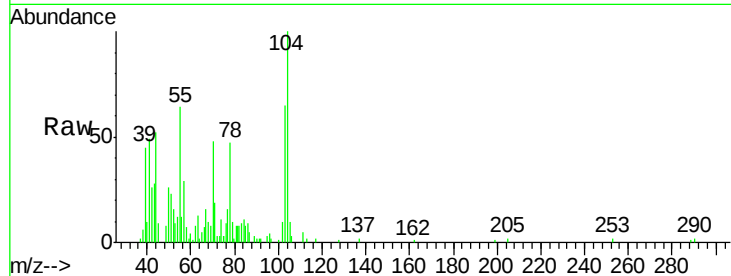
Tgt Ion:104 Resp: 19257

Ion Ratio Lower Upper

104 100

78 94.4 43.4 65.0#

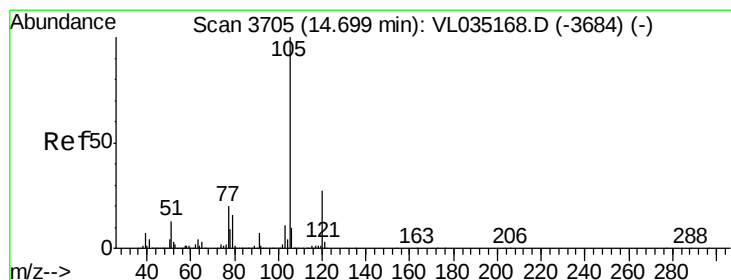
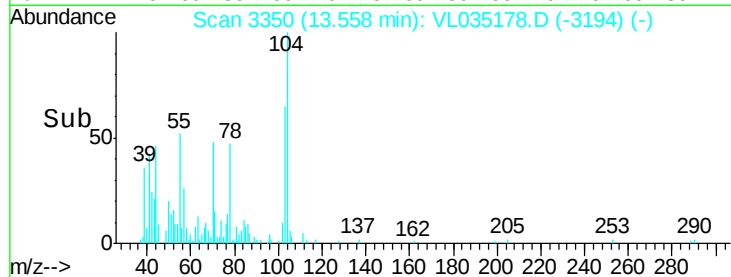
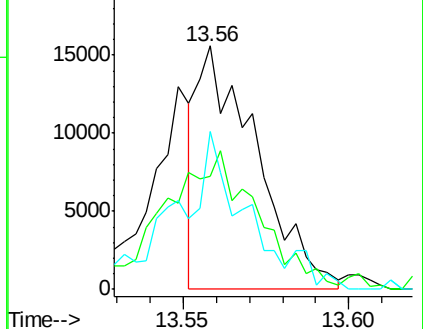
103 80.6 37.4 56.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.940 ppbv

RT: 14.70 min Scan# 3704

Delta R.T. -0.00 min

Lab File: VL035178.D

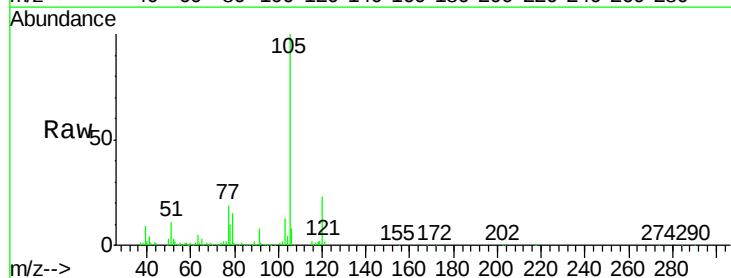
Acq: 8 Jul 2020 10:43

Tgt Ion:105 Resp: 325399

Ion Ratio Lower Upper

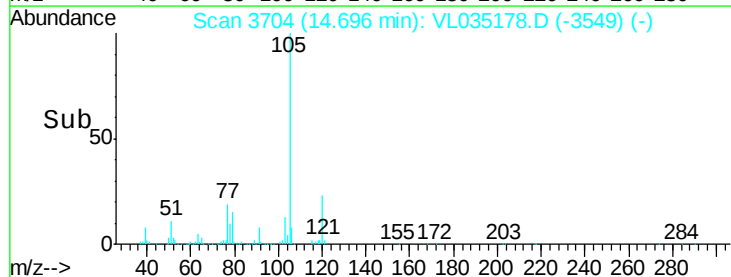
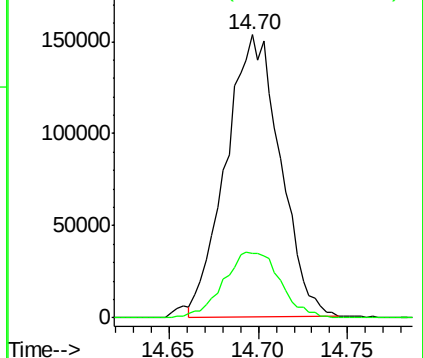
105 100

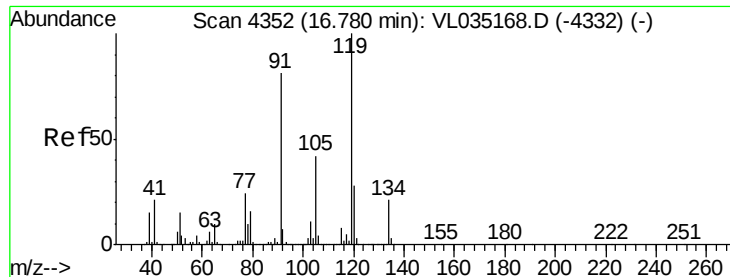
120 24.3 20.7 31.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

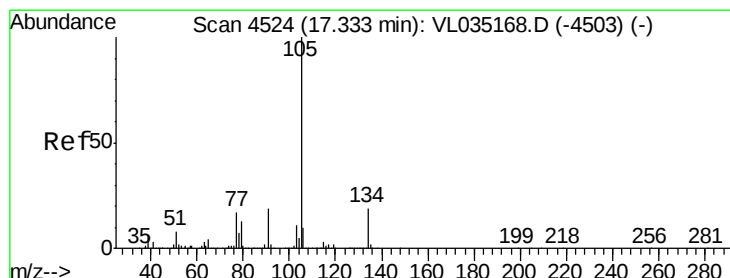
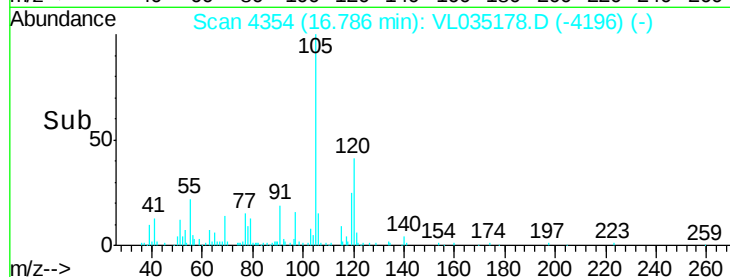
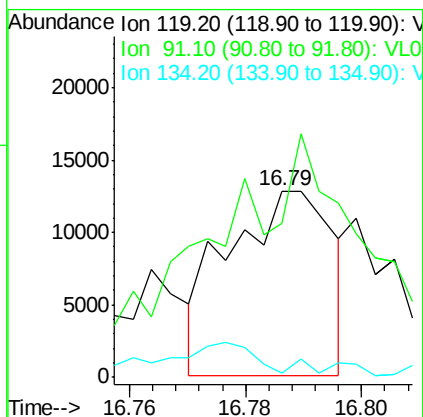
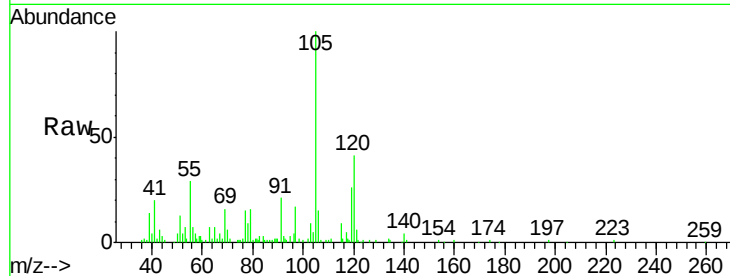




#65
tert-Butylbenzene
Concen: 0.051 ppbv
RT: 16.79 min Scan# 4354
Delta R.T. 0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

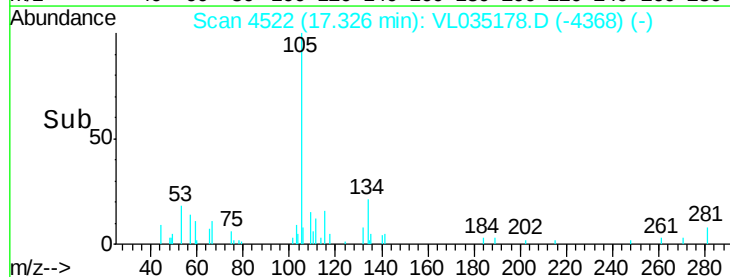
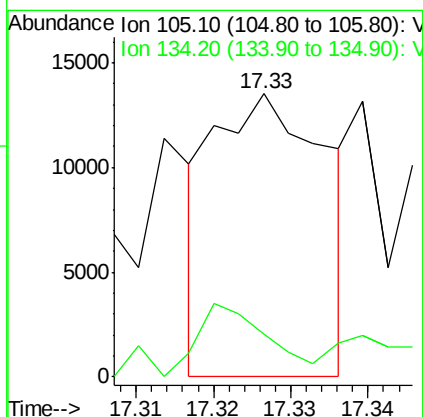
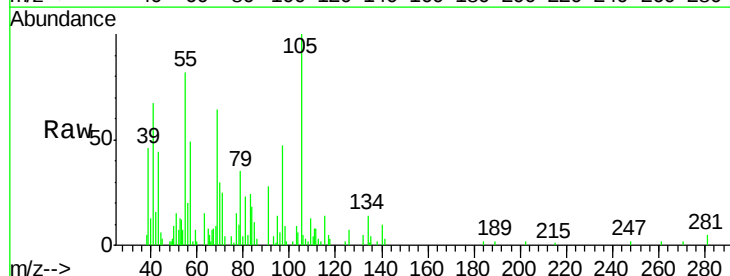
Instrument :
MSVOA_L
ClientSampleId :
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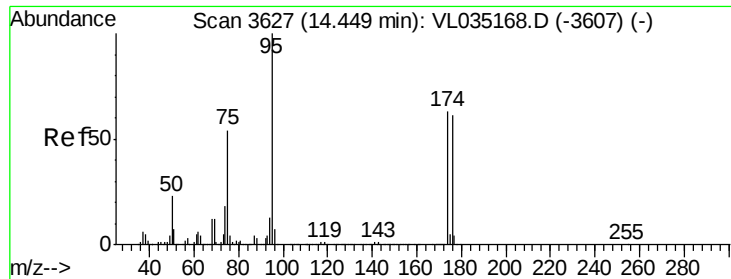
Tgt Ion:119 Resp: 15941
Ion Ratio Lower Upper
119 100
91 215.2 67.5 101.3#
134 29.4 16.0 24.0#



#67
sec-Butylbenzene
Concen: 0.030 ppbv
RT: 17.33 min Scan# 4522
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:105 Resp: 13630
Ion Ratio Lower Upper
105 100
134 34.5 14.6 21.8#

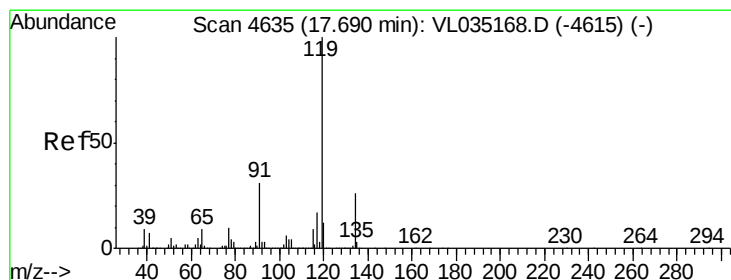
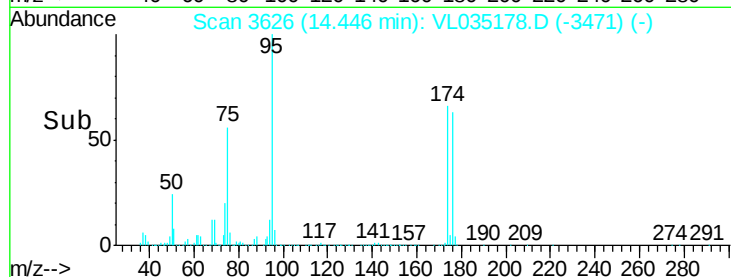
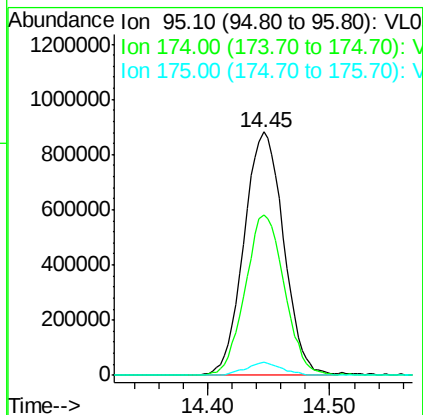
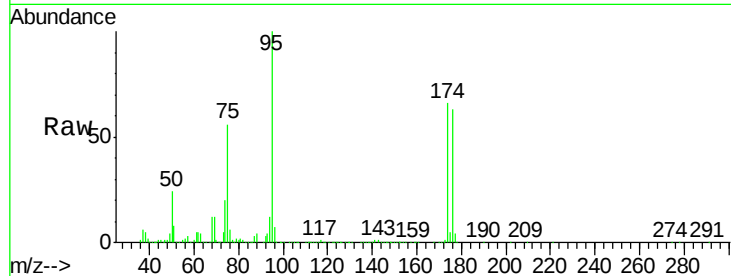




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.259 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.00 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

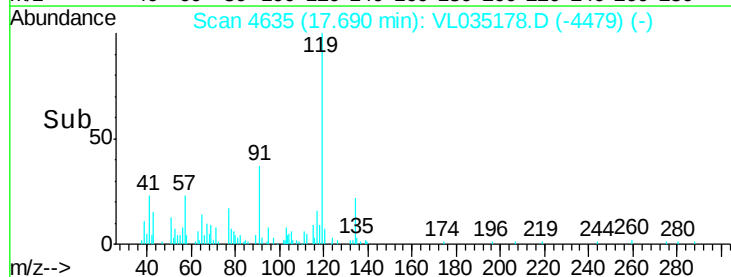
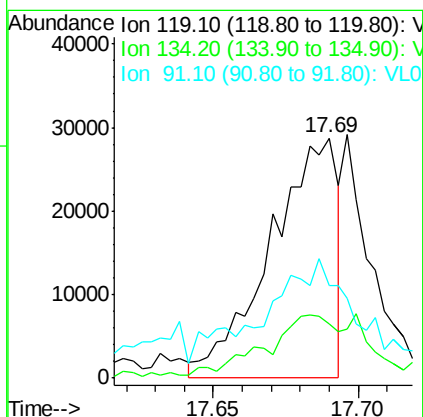
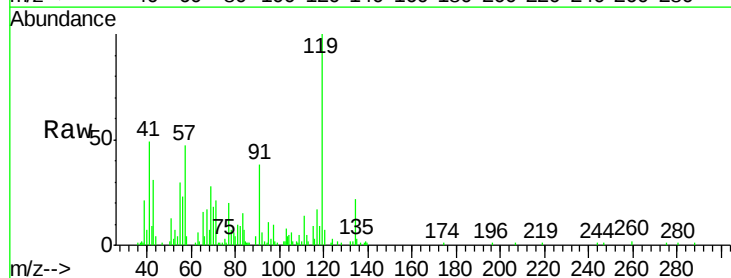
Instrument :
 MSVOA_L
 ClientSampleId :
 EXHAUST-02

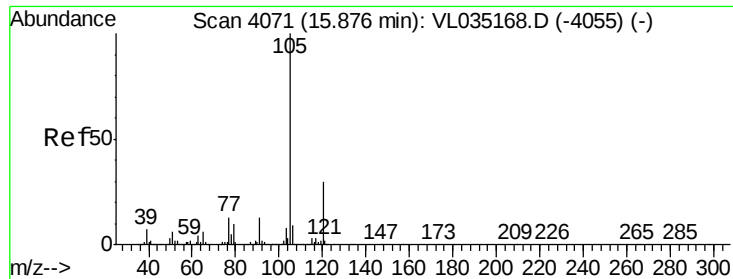
Tgt Ion: 95 Resp: 1979530
 Ion Ratio Lower Upper
 95 100
 174 65.2 52.2 78.2
 175 4.9 4.0 6.0



#69
 p-Isopropyltoluene
 Concen: 0.130 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. 0.00 min
 Lab File: VL035178.D
 Acq: 8 Jul 2020 10:43

Tgt Ion: 119 Resp: 46195
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.8 31.2#
 91 70.3 24.9 37.3#





#72

4-Ethyltoluene

Concen: 0.100 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.01 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

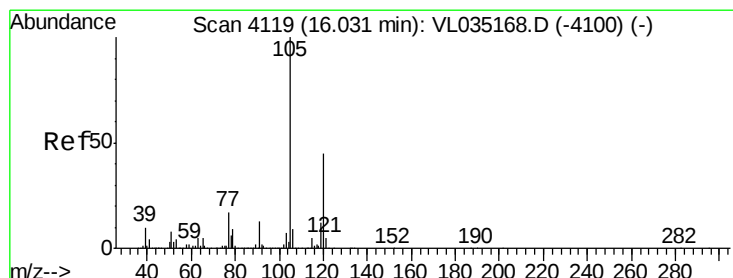
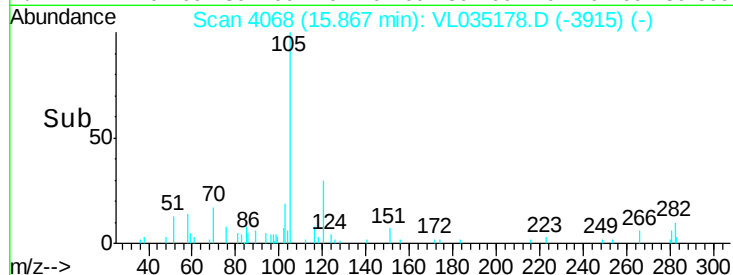
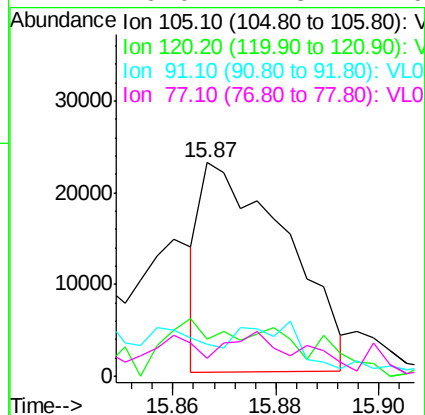
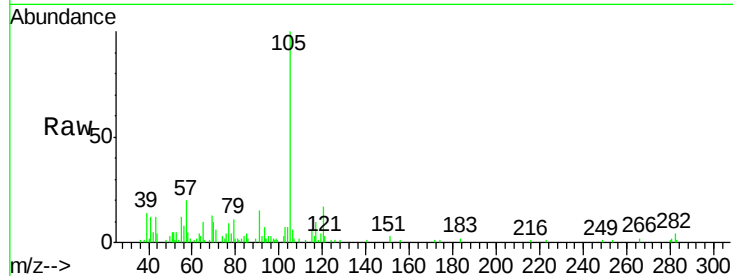
Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tgt Ion:	105	Resp:	26238
Ion	Ratio	Lower	Upper
105	100		
120	48.4	23.2	34.8#
91	0.0	10.9	16.3#
77	0.0	11.8	17.6#



#73

1,3,5-Trimethylbenzene

Concen: 0.194 ppbv

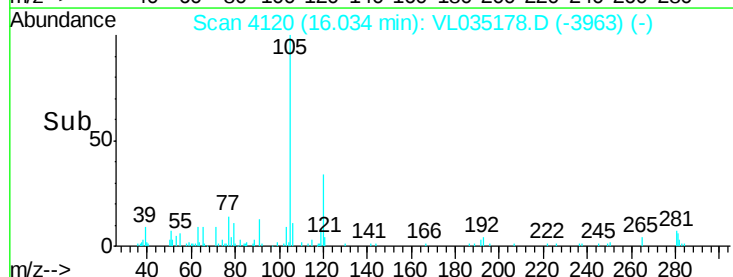
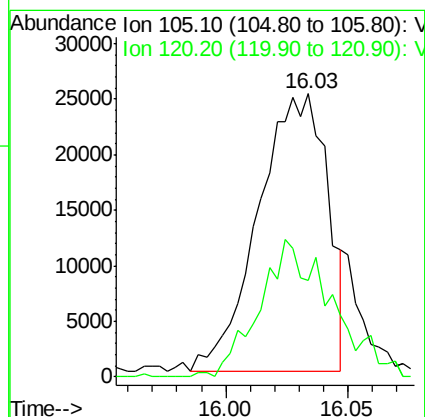
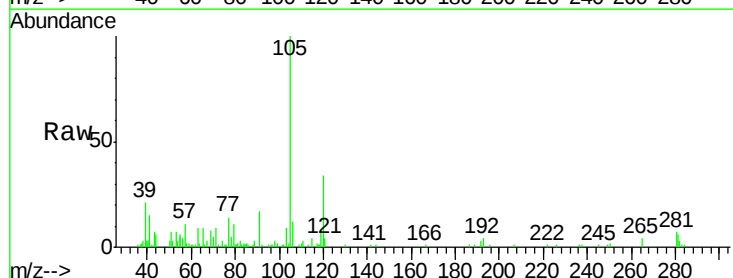
RT: 16.03 min Scan# 4120

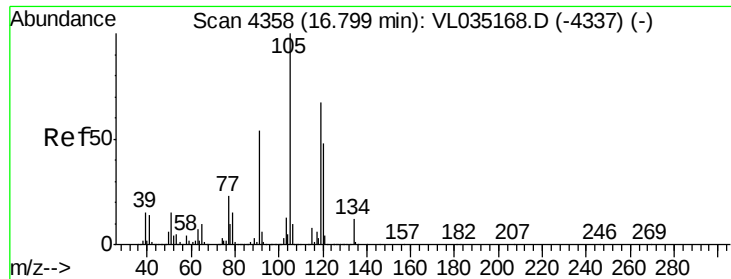
Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Tgt Ion:	105	Resp:	49225
Ion	Ratio	Lower	Upper
105	100		
120	39.2	36.2	54.2





#74

1,2,4-Trimethylbenzene

Concen: 0.528 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tgt Ion:105 Resp: 147889

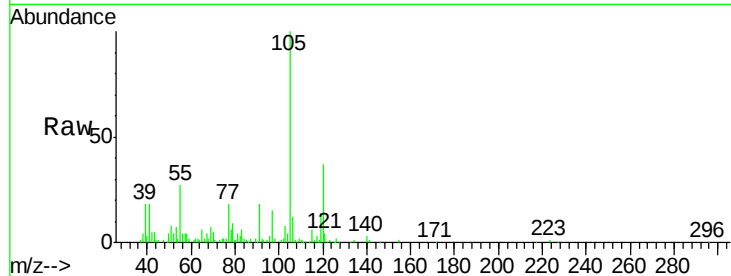
Ion Ratio Lower Upper

105 100

120 37.3 38.6 57.8#

91 12.7 43.6 65.4#

77 14.4 18.3 27.5#

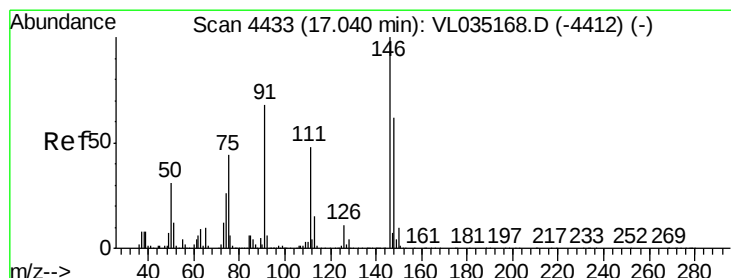
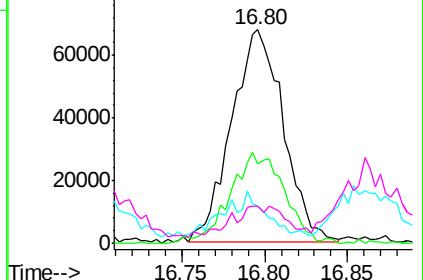
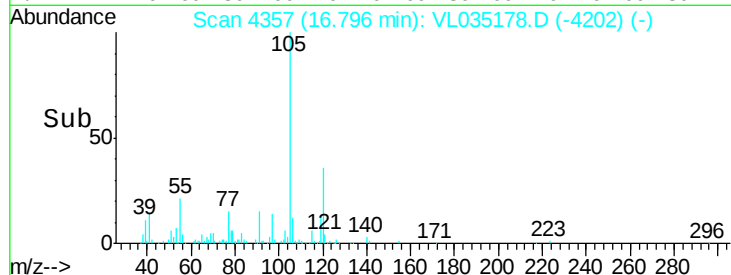


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.048 ppbv

RT: 17.04 min Scan# 4432

Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

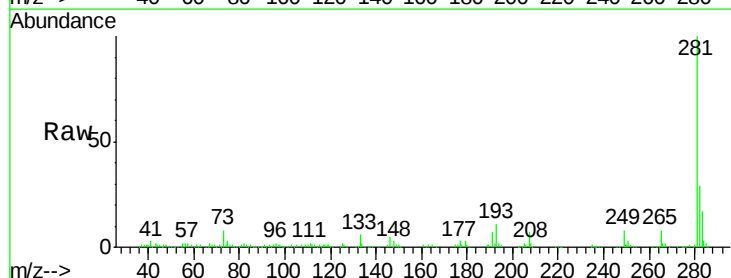
Tgt Ion:146 Resp: 8445

Ion Ratio Lower Upper

146 100

111 0.0 24.7 74.1#

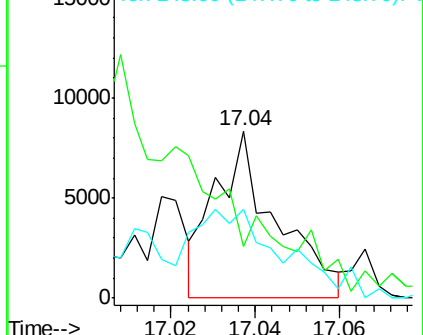
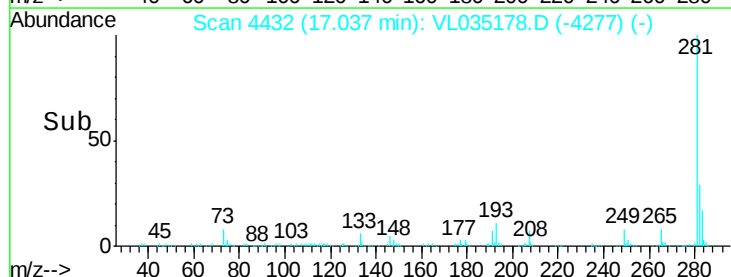
148 0.0 32.4 97.0#

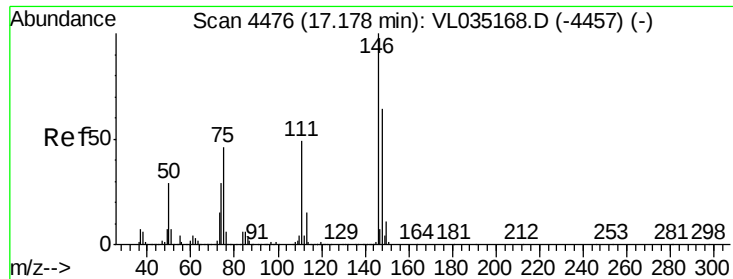


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#76

1,4-Dichlorobenzene

Concen: 0.065 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

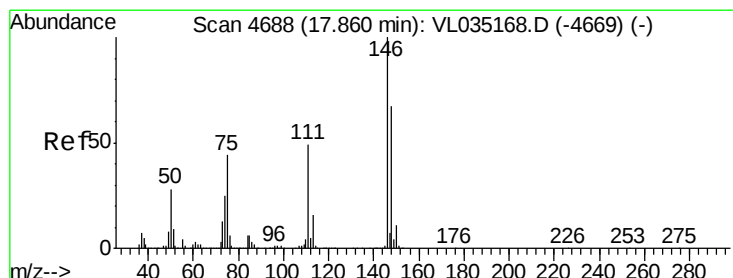
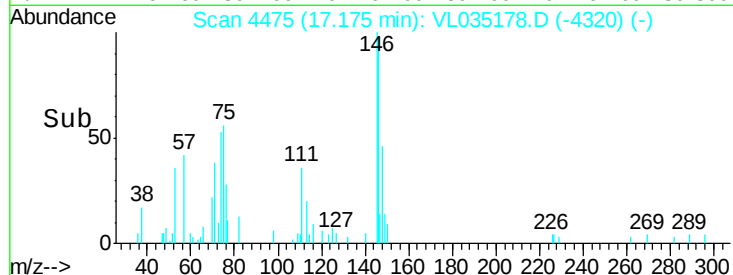
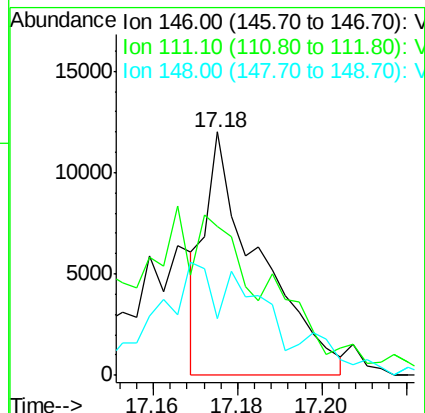
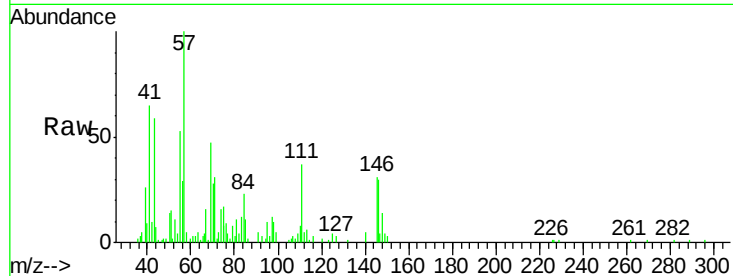
Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

Tgt Ion:	146	Resp:	10697
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.2#
148	0.0	32.3	96.9#



#77

1,2-Dichlorobenzene

Concen: 0.055 ppbv

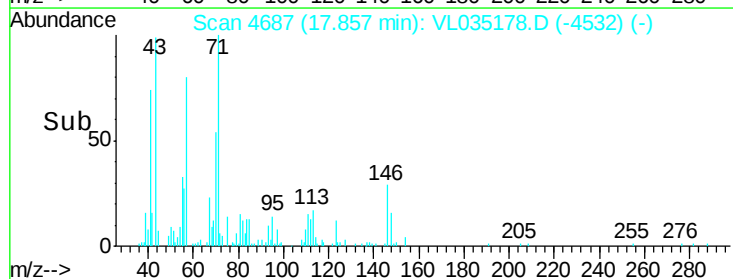
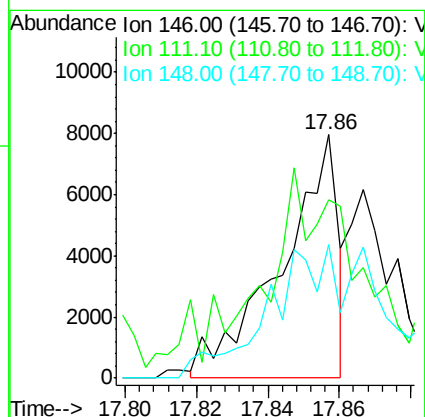
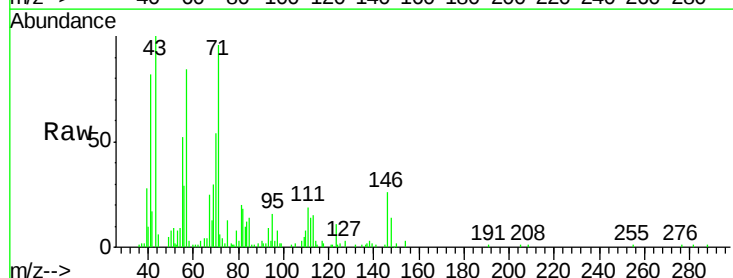
RT: 17.86 min Scan# 4687

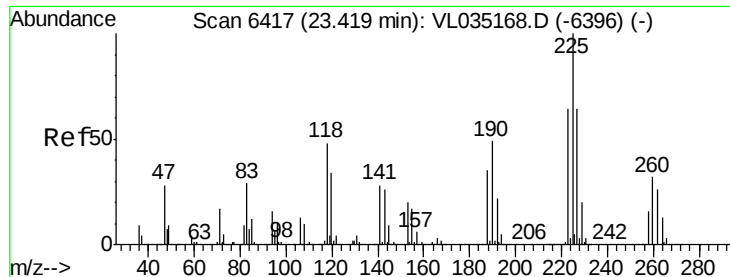
Delta R.T. -0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Tgt Ion:	146	Resp:	8742
Ion	Ratio	Lower	Upper
146	100		
111	132.6	25.1	75.2#
148	111.5	32.4	97.0#





#78

Hexachloro-1,3-Butadiene

Concen: 0.157 ppbv

RT: 23.42 min Scan# 6418

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

Instrument :

MSVOA_L

ClientSampleId :

EXHAUST-02

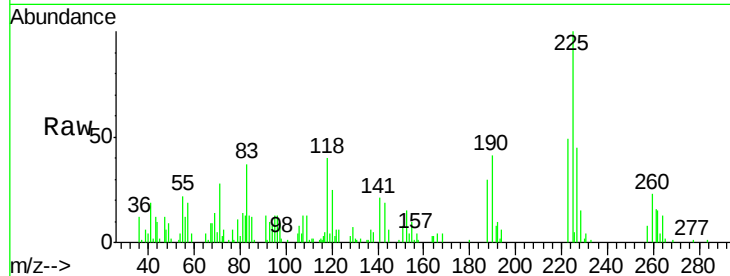
Tgt Ion:225 Resp: 19775

Ion Ratio Lower Upper

225 100

223 124.1 50.2 75.2#

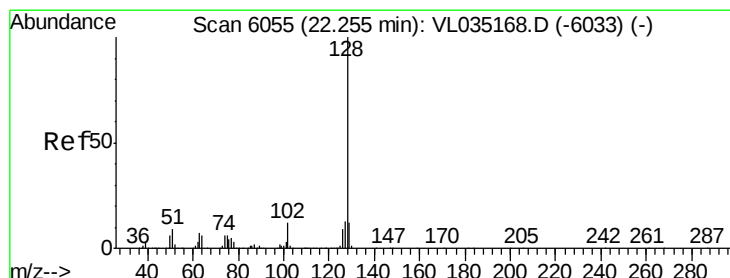
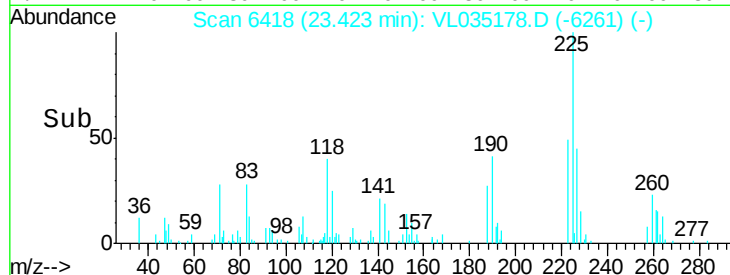
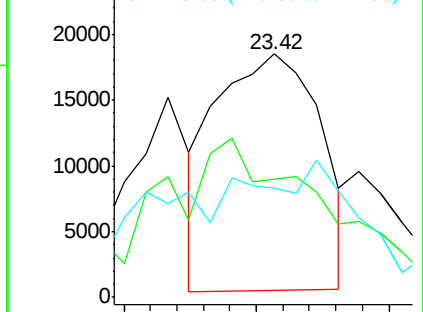
227 0.0 51.2 76.8#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.391 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.00 min

Lab File: VL035178.D

Acq: 8 Jul 2020 10:43

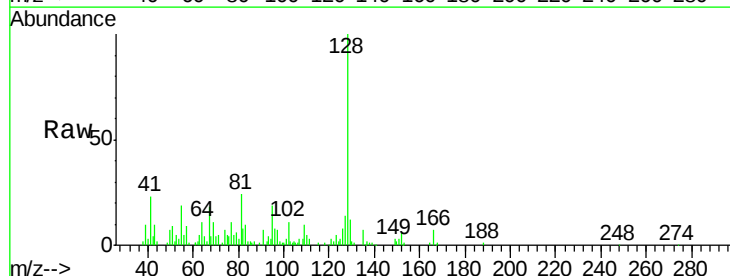
Tgt Ion:128 Resp: 70869

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

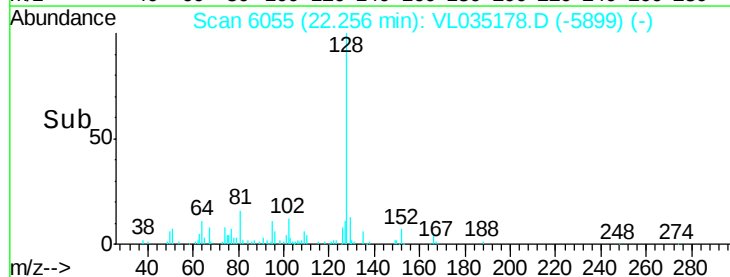
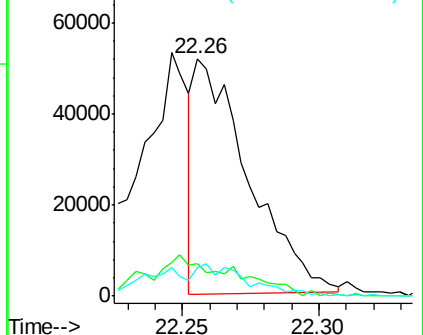
129 12.0 9.4 14.2

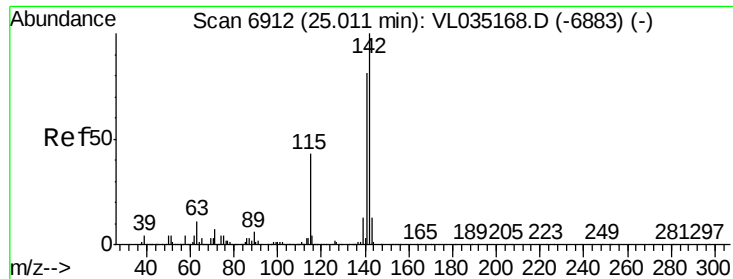


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

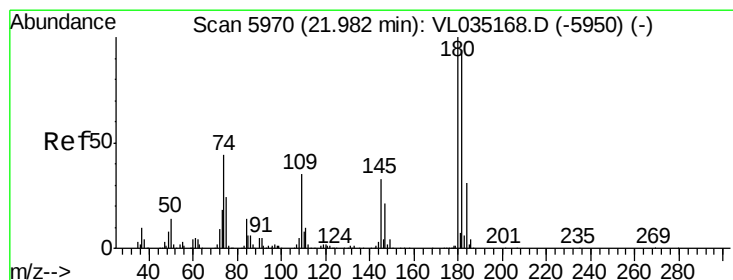
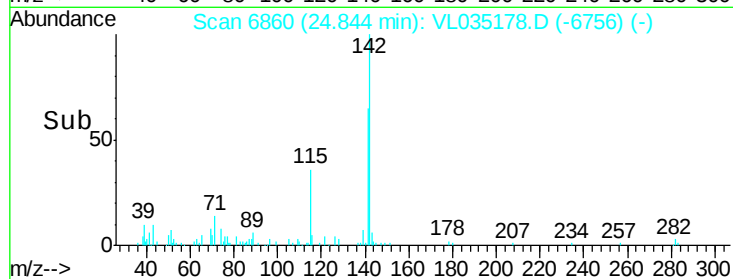
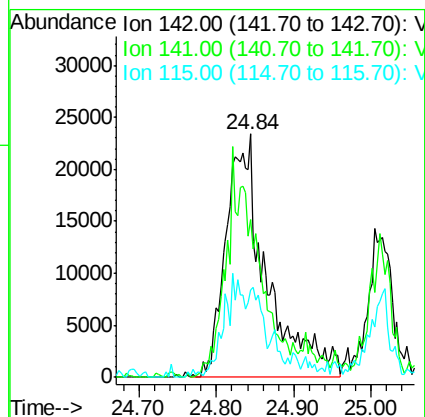
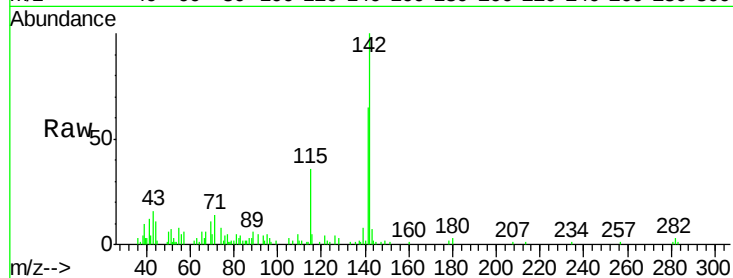




#80
Naphthalene, 2-methyl-
Concen: 1.977 ppbv
RT: 24.84 min Scan# 6860
Delta R.T. -0.17 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Instrument :
MSVOA_L
ClientSampleId :
EXHAUST-02

Tgt Ion:142 Resp: 84712
Ion Ratio Lower Upper
142 100
141 83.0 68.2 102.4
115 43.2 34.4 51.6



#81
1,2,4-Trichlorobenzene
Concen: 0.047 ppbv
RT: 21.97 min Scan# 5967
Delta R.T. -0.01 min
Lab File: VL035178.D
Acq: 8 Jul 2020 10:43

Tgt Ion:180 Resp: 5357
Ion Ratio Lower Upper
180 100
182 0.0 76.7 115.1#
184 0.0 25.0 37.6#

